

Software Requirement Specification

Project: Data Management Module

Version no. 1.2

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Executive Summary

Poraver (further referred as “client”) has 600+ recipes for polymers managed in excel sheets. Client wants to change it to an “electronic format”. Client wants to set up a database for recipes which should allow users to filter and access the recipes by parameters. The proposed system will be a web-based application to manage and retrieve the recipes records. The mobile responsive screens will allow sales user to access a search dashboard and download Product sheets in .pdf format. The web app will allow admin to create and manage users, roles, recipes and test results. Admin will be able to create eg. Lab and Management users, that will in example be able to login to the system and access recipes and manage test information.

In the future scope, recipes will be linked to the respective customer and orders that we will pass on to production planning via the MES system. In current phase, all the data input is manual, in future phase the system is proposed to be integrated with ERP and Sensors used in recipe production.

Scope of Work

- Admin User – Web Application

Note: Admin will be add new roles as per the choice and requirement through the proposed role master.

Third party Integrations

- Email Gateway

Functional Requirement:

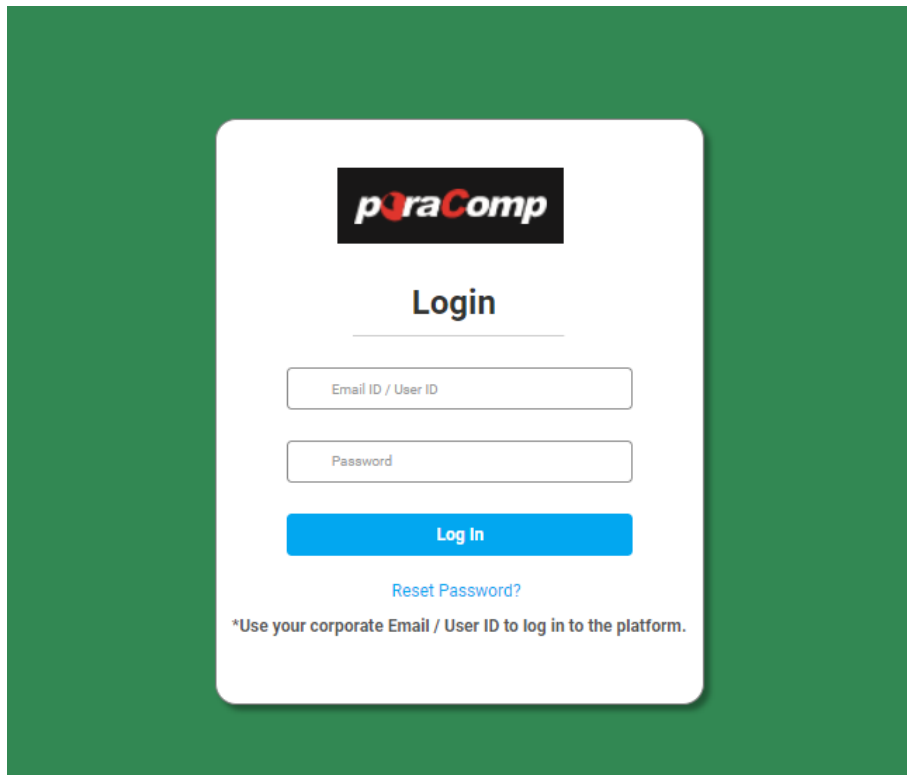
Modules for Admin:

Login Screen

Actors	Admin
Interface	Web, Mobile
Requirement Definition	Admin should be able to log in using valid credentials.
Pre - Condition	Admin Login form will be displayed.
Post - Condition	Admin will view the dashboard page and access the system.
Business Rules / Logic	<ol style="list-style-type: none"> 1. Admin will enter the login credentials. 2. Admin will view the dashboard upon login. 3. Admin will be able to reset the password using the “reset password” link on the login page. 4. The system will throw an error in case the Email ID/User ID is invalid. <p><u>User Onboarding:</u></p> <p>Admin users with user role creation access will be able to create new users and assign roles.</p> <ul style="list-style-type: none"> • The users will receive a password set up email on the registered email address after the admin creates a user record. • By clicking the password setup link, users will create a new password and log in. • After the password setup of password, the users will redirect to the login page. <p>Reference: Wireframe - Account password setup email template</p> <p><u>Login:</u></p> <p>Admin will be able to log in using the below credentials:</p> <ul style="list-style-type: none"> • Email ID / User ID • Password

Fields and Validation	Links: <ul style="list-style-type: none"> Reset Password Logout The user will be able to log out by clicking on the logout link under the profile icon.	
	Reference: Wireframe - Login Screen	
	<ul style="list-style-type: none"> On successful validation of login credentials, Admin can view/access the platform. If the Email ID/User ID is incorrect, the admin will be prompted to enter the correct email ID. "Email ID / User ID is incorrect" The Email ID needs to match the domain which belongs to the client. E.g. thomas@proraver.in. Else system will throw an error "Please enter Valid Email Address". If the entered password is not valid, the system will prompt the admin to enter a correct password. "Password is incorrect" 	
	Email ID / User ID	Text Field
	Password	Text Field
	Login	Button
	Reset Password	Link

Wireframe – Login



paraComp

Login

Email ID / User ID

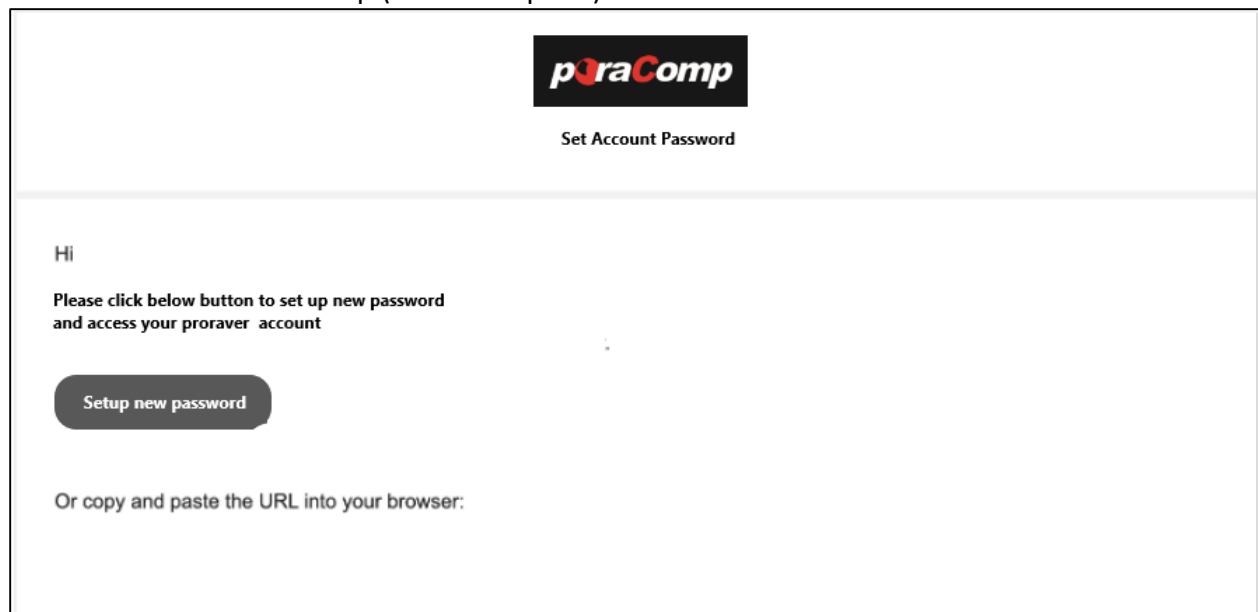
Password

Log In

[Reset Password?](#)

*Use your corporate Email / User ID to log in to the platform.

Wireframe: Password Setup (Email Template)



paraComp

Set Account Password

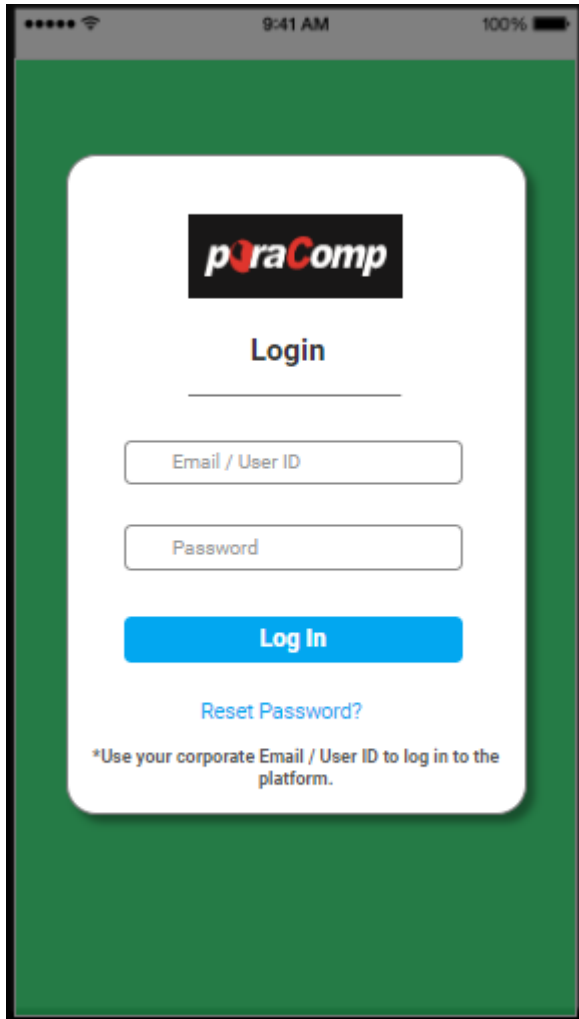
Hi

Please click below button to set up new password
and access your proraver account

Setup new password

Or copy and paste the URL into your browser:

Mobile Wireframe – Login



Mobile Wireframe – Login

Mobile Wireframe of a login screen for paraComp. The screen has a green background. A white login card is centered, containing the paraComp logo, the title "Login", input fields for "Email / User ID" and "Password", a blue "Log In" button, a "Reset Password?" link, and a note: "*Use your corporate Email / User ID to log in to the platform." The top status bar shows signal strength, time (9:41 AM), and battery (100%).

Dashboard

Actors	Admin
Interface	Web, Mobile
Requirement Definition	Admin will be able to view the dashboard with the recipes.
Pre - Condition	Admin has logged in using a valid email ID.
Post - Condition	Admin will be able to view the dashboard after logging in.
Business Rules / Logic	<p>The dashboard will display below:</p> <p><u>Recipe Search (Search bar)</u> The recipe search will allow a user to search for a specific recipe. The search bar will allow users to enter keywords and will display suggestions based on the user inputs.</p> <p>After clicking on the suggested recipe in the suggestion, the admin will be able to view the recipe in detail. After clicking enter on the search window with the keyword, the matching results for recipes will be displayed.</p> <p><u>Select Properties (Filter)</u> The users will be able to select the properties of the recipe to search. Based on the selection, the matching results will be displayed to the user. If the selected property is part of the recipe, the results will be displayed.</p> <p><u>Reset Filters</u> The Admin will be able to reset the selected filters.</p> <p><u>Filter (Min-Max)</u></p> <ul style="list-style-type: none"> • Tensile Module in MPa • Tensile Strength in MPa • Charpy impact strength in kJ/m² <p>The filter will allow the user to select the range of the Tensile module in MPa. Users will be able to drag to select the range. The range value will be updated based on the user input.</p>

Once the range has been selected the screen will reload to display the desired results.

Recipes found (Filter Search, Count)

The total count of recipes after the search and filter will be displayed in the total value.

Recipes Grid

The recipes will be displayed in a grid layout. The grid will contain 3 recipes in a column. 4-5 rows. The user will have an option to view more recipes in the grid using the pagination options.

Recipe Details

Every grid will display basic information about the recipe. The recipe grid will contain the recipe name, a short description, and bars displaying Strength, Impact, and Tensile.

Note: Users will be able to click on a recipe grid to navigate to the detailed view of the recipe. Refer Module: Recipe Details.

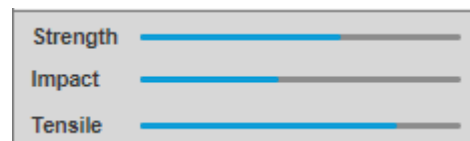
Calculation of Strength, Impact, and Tensile Modulus on Bars.

This needs to be split up into Strength, Impact, and tensile.

Values:

- Strength 1-200 MPa
- Impact: 1-200kJ/m²
- Tensile Modulus: 1-10000 MPa


Based on the actual values of the recipe for strength, Impact, and Tensile, the bar will display color.





Note: All the recipe attribute information will be added through the recipe module.


Reference: Wireframe - Dashboard


Wireframe: Dashboard








 Dashboard


 Role Master


 Manage Users

 Materials

 Projects

 Recipe

 Testing

 Master Tables

Recipe Search

Test functionality by typing 'Pro'

Tensile Modules in MPa

200-700

PRO 0012

Proraver

Prorav 992 Black (001)

Prorav black (001) is a 30% glass fiber reinforced, easy flowing polyamide 6. It is characterised by a high stiffness and strength. Furthermore, the material is UV and heat stabilised and therefore perfectly suitable for technical components in outdoor applications.

Strength

Impact

Tensile

PRO 0023

Proraver

Prorav 939 green (027)

Prorav black (001) is a 30% glass fiber reinforced, easy flowing polyamide 6. It is characterised by a high stiffness and strength. Furthermore, the material is UV and heat stabilised and therefore perfectly suitable for technical components in outdoor applications.

Strength

Impact

Tensile

PRO 0025

Proraver

Prorav 950 white (070)

Prorav black (001) is a 30% glass fiber reinforced, easy flowing polyamide 6. It is characterised by a high stiffness and strength. Furthermore, the material is UV and heat stabilised and therefore perfectly suitable for technical components in outdoor applications.

Strength

Impact

Tensile

PRO 0053

Proraver

Prorav 981 grey (902)

Prorav black (001) is a 30% glass fiber reinforced, easy flowing polyamide 6. It is characterised by a high stiffness and strength. Furthermore, the material is UV and heat stabilised and therefore perfectly suitable for technical components in outdoor applications.

Strength

Impact

Tensile

PRO 021

Proraver

Prorav 937 Black (011)

Prorav black (001) is a 30% glass fiber reinforced, easy flowing polyamide 6. It is characterised by a high stiffness and strength. Furthermore, the material is UV and heat stabilised and therefore perfectly suitable for technical components in outdoor applications.

Strength

Impact

Tensile

PRO 0087

Proraver

Prorav 901 Black (123)

Prorav black (001) is a 30% glass fiber reinforced, easy flowing polyamide 6. It is characterised by a high stiffness and strength. Furthermore, the material is UV and heat stabilised and therefore perfectly suitable for technical components in outdoor applications.

Strength

Impact

Tensile

Previous

1

2

3

Next

Select Properties

Reset Filters

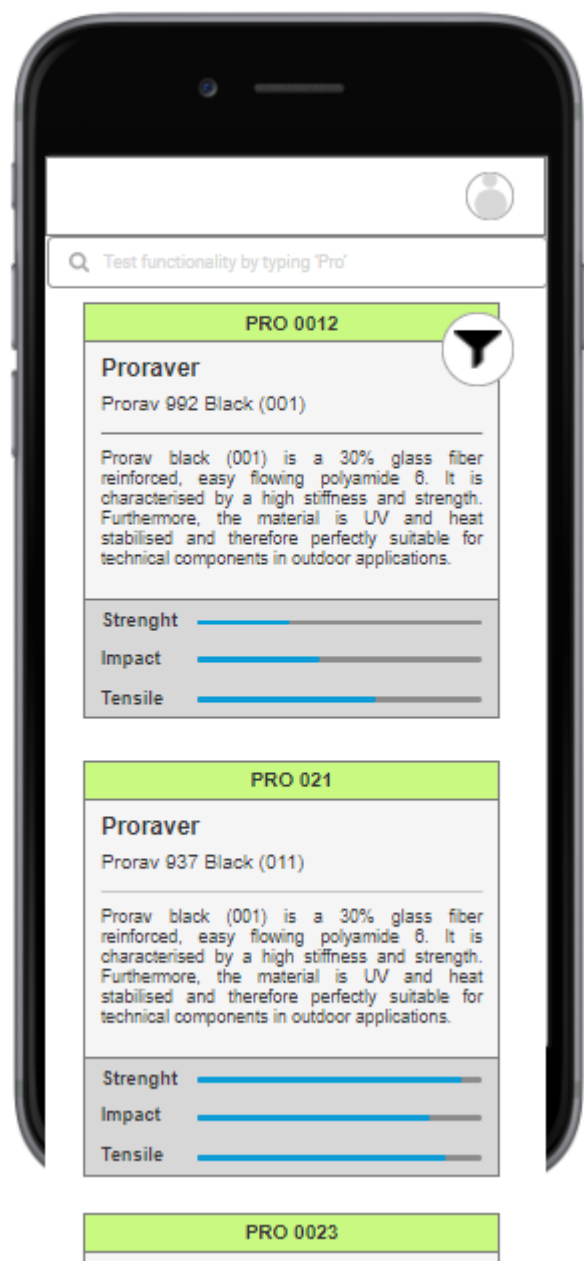
Recipe Dashboard

Charpy impact strength in kJ/m2

400-700

Total Recipe Found
70

Mobile Wireframe: Dashboard



Recipe Details

Actors	Admin
Interface	Web, Mobile
Requirement Definition	Admin will be able to view the list of the recipe details.
Pre - Condition	Admin has logged in using a valid email id.
Post - Condition	Admin will be able to view the dashboard after logging in and view the recipe details from the dashboard.
Business Rules / Logic	<p>The recipe details will be as below:</p> <p>Below will be displayed in read-only format.</p> <ul style="list-style-type: none"> – Product Name – Recipe Number – Comment <p>Mechanical properties</p> <p>Every mechanical property will have two numeric input fields, d.a.m and conditioned.</p> <ul style="list-style-type: none"> • Tensile modulus (1 mm/min ISO 527-2) • Stress at yield(50 mm/min ISO 527-2) • Strain at yield(50 mm/min ISO 527-2) • Strain at break(50 mm/min ISO 527-2) • Flexural modulus(2 mm/min ISO 178) • Flexural strength(2 mm/min ISO 178) • Flexural strain at break(2 mm/min ISO 178) • Charpy impact strength(23°C ISO 179-1/1eU) • Charpy impact strength(-30°C ISO 179-1/1eU) • Charpy notched impact strength(23°C ISO 179-1/1eA) • Charpy notched impact strength(-30°C ISO 179-1/1eA) • Izod-notched impact strength(23°C ISO 180/1A) • Izod-notched impact strength(-20°C ISO 180/1A) • Izod-notched impact strength(-40°C ISO 180/1A) • Shore D Hardness(23°C DIN 53 505)

Temperature properties

Every Temperature property will have a single field with a text input box.

- The temperature of deflection under load HDT/A(1,8 MPa | ISO 75)
- Temperature of deflection under load HDT/B(0,45 MPa | ISO 75)
- Melting temperature(DSC, 10K/min | DIN EN ISO 11357-3)
- Coefficients of linear thermal expansion, parallel(23°C bis 80°C | ISO 11359-1/2)
- Coefficients of linear thermal expansion, transverse(23°C bis 80°C | ISO 11359-1/2)

Flammability properties

Every flammability property will have a single field with a text input box.

- Burning rate(UL 94), 1,6mm Wall thickness
- GWFI(IEC 60695-2-12) 1,6mm Wall thickness
- GWIT(IEC 60695-2-13) 1,6mm Wall thickness
- Burning rate (<100 mm/min)(> 1 mm Thickness | FMVSS 302)

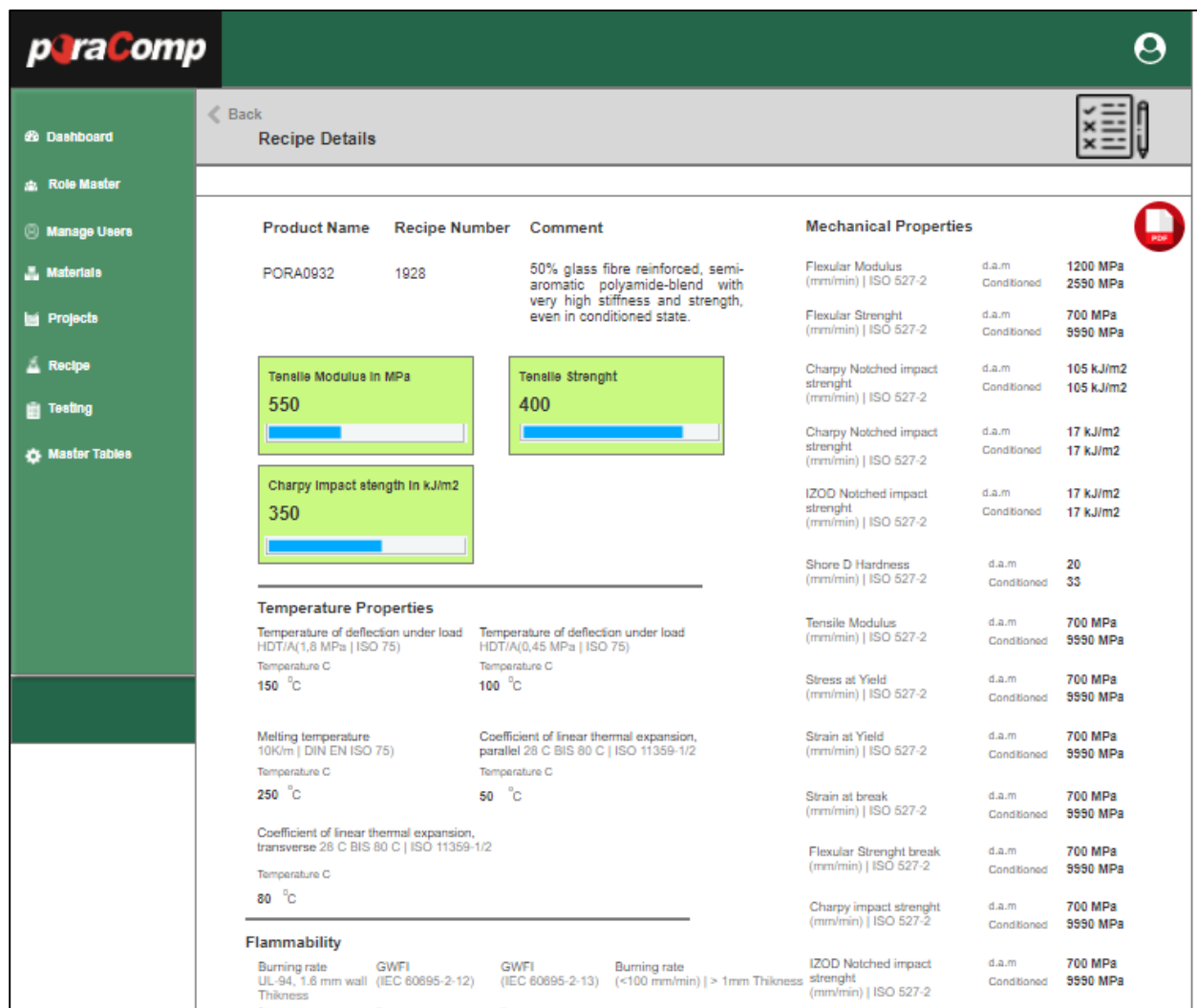
General Properties

Every flammability property will have a single field with a text input box.

- Density(23°C | ISO 1183)
- Humidity absorption(70°C, 62% r.H. | ISO 1110)
- Molding shrinkage(flow | ISO 294-4)
- Molding shrinkage(transverse | ISO 294-4)
- MFR
- MVR

Electrical Properties

	<p>Every electrical property will have a single field with a text input box.</p> <ul style="list-style-type: none"> • Volume resistivity(DIN EN 62631-3-1) • Volume resistivity(DIN EN 62631-3-1) • Surface resistivity(DIN EN 62631-3-2) • CoMParative tracking index(Test liquid A IEC 60112) <p>Properties</p> <p>Every property will have a checkbox.</p> <ul style="list-style-type: none"> • Sustainable • flame retardant • heat stabilized 130 • heat stabilized 160 • heat stabilized 230 • hydrolysis/ chemically stabilized • laser transparent • laser markable • low warpage • reduced density • reduced moisture • electrically neutral • UV-stabilized • surface-modified • adhesion modified • Tribological modified • easy flow • nucleated • process improved • fluid injection (GIT/WIT/FIT) • recycled content • 3D printing/ additive manufacturing <p>Note: The users will be able to print the recipe in PDF format using the Print PDF button.</p> <p>Reference: Recipe Details</p>
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Wireframe: Recipe PDF format (Template may change if the client shares another format)

PDF Format (32 of 83)

Local Preview

axure

Product Name	Recipe Number	Comment
PORA0932	1928	50% glass fibre reinforced, semi-aromatic polyamide-blend with very high stiffness and strength, even in conditioned state.



Tensile Modulus in mPa

550

Tensile Strength

400

Charpy impact strength in kJ/m2

350

Temperature Properties

Temperature of deflection under load
HDT/A(1.8 MPa) | ISO 75
Temperature C

150 c

Temperature of deflection under load
HDT/A(0.45 MPa) | ISO 75
Temperature C

100 c

Melting temperature
10K/m | DIN FN ISO 75
Temperature C

250 c

Coefficient of linear thermal expansion,
transverse 28 C BIS 80 C | ISO 11359-1/2
Temperature C

80 c

Coefficient of linear thermal expansion,
parallel 78 C BIS 80 C | ISO 11359-1/2
Temperature C

50 c

Flammability

Burning rate
UL-94, 1.6 mm wall
Thickness
Class

GWFI
(IEC 60695-2-12)
Temperature

79 c

GWFI
(IEC 60695-2-13)
Temperature

75 c

Burning rate
(<100 mm/min) | > 1mm Thickness
d.a.m

90 c

General Properties

Density
23 C | ISO 1183
Class

1,1 g/cm³

Humidity absorption
70 c, 62% r.H | ISO 1110
Class

2,2-2,2 %

Modal Shrinkage
flow | ISO 294-4
Class

2,2-2,2 %

Modal Shrinkage
Transverse | ISO 294-4
Class

1,3-1,5 %

Flammability

Volume resistivity
IEC 60093
d.a.m

Volume resistivity
IEC 60093
d.a.m

650 c

Surface resistivity
(DIN EN 62051-3-2)
d.a.m

675 c

Comparative tracking index
(Test liquid A) | IEC 60112
+

Mechanical Properties

Flexural Modulus
(mm/min) | ISO 527-2
Conditioned

d.a.m

1200 mPa

2590 mPa

Flexural Strength
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

Charpy Notched impact
strength
(mm/min) | ISO 527-2
Conditioned

d.a.m

105 kJ/m2

105 kJ/m2

Charpy Notched impact
strength
(mm/min) | ISO 527-2
Conditioned

d.a.m

17 kJ/m2

17 kJ/m2

IZOD Notched impact
strength
(mm/min) | ISO 527-2
Conditioned

d.a.m

17 kJ/m2

17 kJ/m2

Shore D Hardness
(mm/min) | ISO 527-2
Conditioned

d.a.m

20

33

Tensile Modulus
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

Stress at Yield
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

Strain at Yield
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

Strain at break
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

Flexural Strength break
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

Charpy impact strength
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

IZOD Notched impact
strength
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

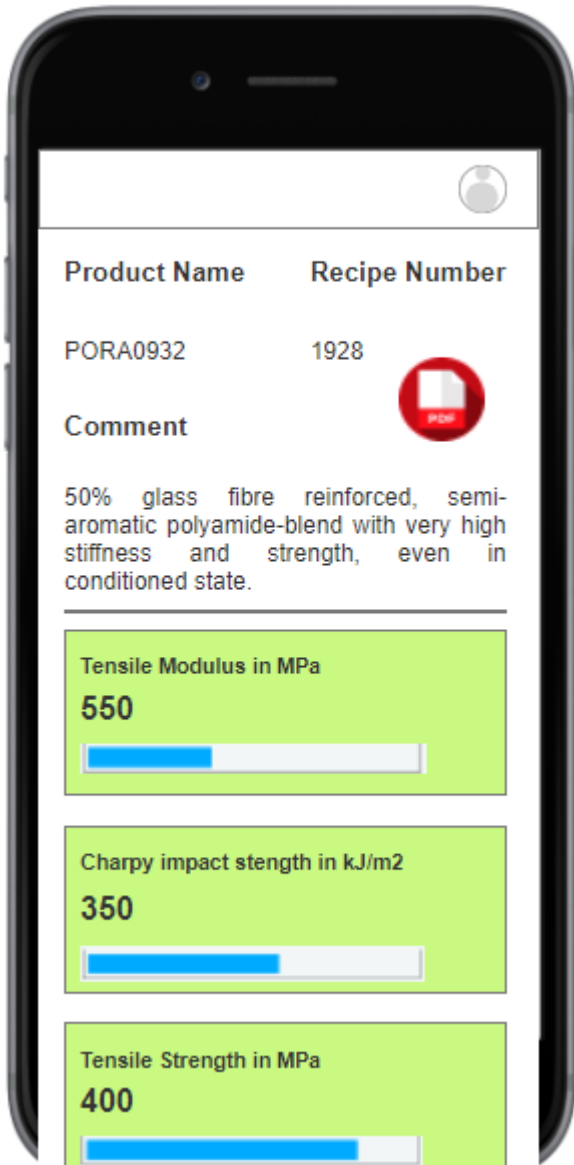
IZOD Notched impact
strength
(mm/min) | ISO 527-2
Conditioned

d.a.m

700 mPa

9990 mPa

Mobile Wireframe: Recipe Details

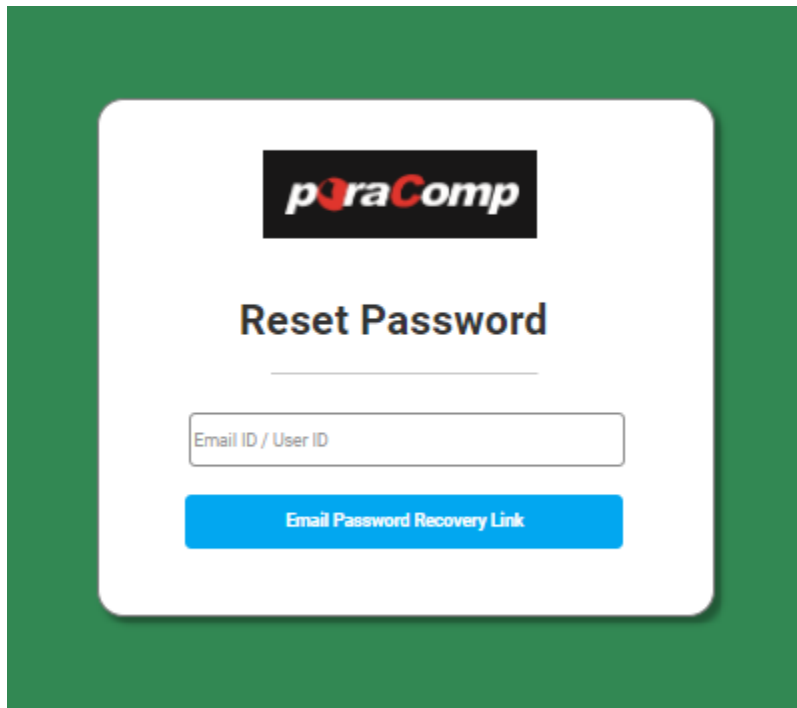


Reset Password

Actors	Admin
Interface	Web, Mobile
Requirement Definition	Admin should be able to reset the password.
Pre - Condition	Admin clicks reset password link.
Post - Condition	Admin will be able to create a new password.
Business Rules / Logic	<p>In case the admin loses the account password, the admin will be able to create a new password using the registered corporate email address or User ID.</p> <p>The admin will click the “reset password” link on the login page which will redirect the user to the send password reset link page.</p> <p>On the password reset link to page, the admin will type in the registered email address/ User ID and click the “Send password link” to receive the password to the registered email ID.</p> <p>The user will type in the registered email ID. If the email ID/User ID matches the registered email address/User ID, the system will display, “Email Sent” on the screen.</p> <p>If the email entered by the user does not match any registered email address the system will display, “Please check your email ID/User ID” on the screen.</p> <p>Below will be the user inputs on the reset password link page. - <u>Email id</u></p> <p>Reference: New Password</p> <p><u>New Password Setup</u></p> <ul style="list-style-type: none"> On clicking the password reset link received in the email, the users will be able to set up a new password. The user will be allowed to enter a new password in two fields, new password & Confirm Password.

	<ul style="list-style-type: none"> Once the new password matches with confirm the password and is saved, the password will be reset. The user will redirect to the dashboard with a confirmation message, " Password Reset Successful" <p>Reference: Wireframe</p> <ul style="list-style-type: none"> Password reset email template New Password setup page 	
Fields and Validation	<ul style="list-style-type: none"> If the Email-id is incorrect, the admin will be prompted to enter the correct email ID/User ID. The Email ID needs to match the domain which belongs to the client. 	
	Email ID/User ID	Text Field
	Send Password Reset Link	Button
	Password Reset Page	
	New Password	Password
	Confirm Password	Password

Wireframe: Reset Password (Web, Mobile)



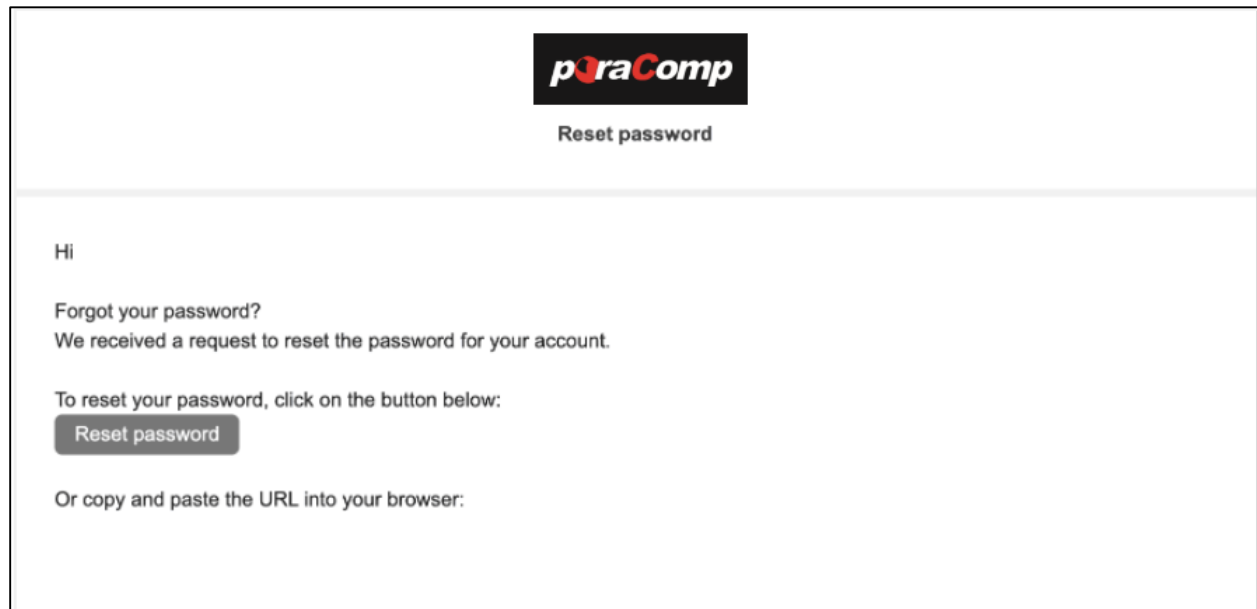
paraComp

Reset Password

Email ID / User ID

Email Password Recovery Link

Wireframe: Password Reset Email Template



paraComp

Reset password

Hi

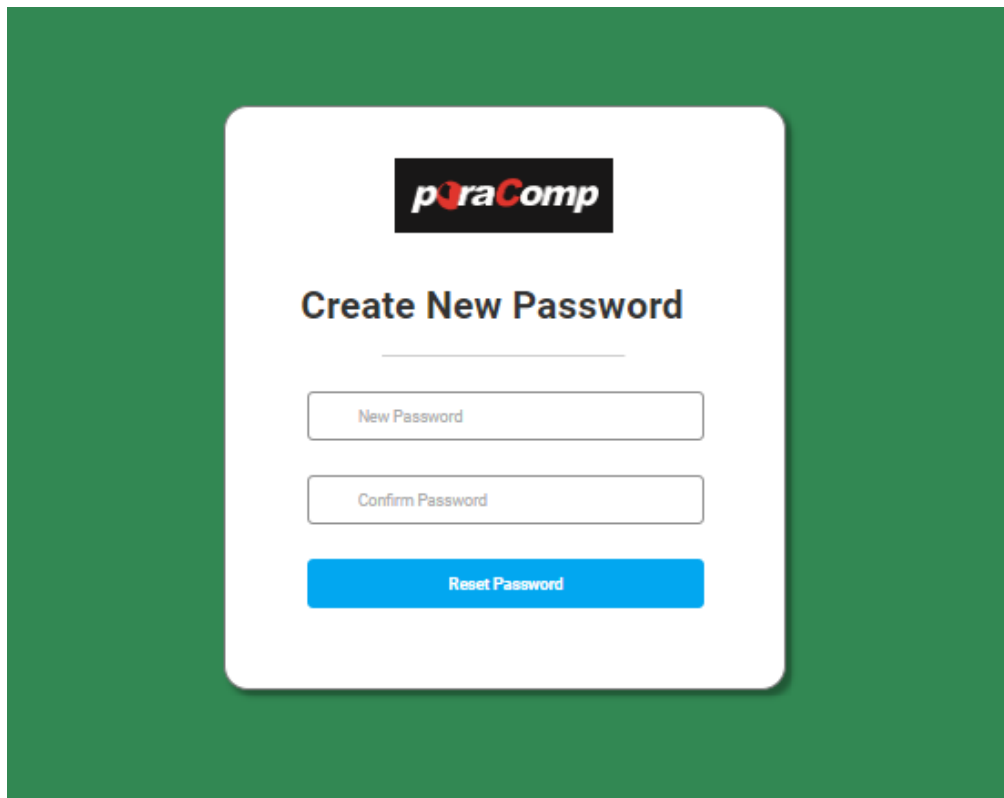
Forgot your password?
We received a request to reset the password for your account.

To reset your password, click on the button below:

Reset password

Or copy and paste the URL into your browser:

Wireframe: New Password (Web, Mobile)



Role Master

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to view the list of role masters.
Pre - Condition	Admin has logged in using a valid email id.
Post - Condition	Admin will be able to access the role master page and perform available activities.
Business Rules / Logic	<p>Only Admin user has access to role master and functionality. The following fields will be visible on the screen. (Role master screen)</p> <p>Role master list table including the following columns :</p> <ul style="list-style-type: none"> - Role ID - Roles

	<ul style="list-style-type: none"> - Action - Check box <p>With the click of “Add New Role”, Admin will land on creating a new role screen.</p> <p><u>Pagination</u> – The role master table will have pagination. Pagination will help users to get an idea of a number of records and navigate easily through a big list.</p> <p>Reference: Wireframe – Role List</p> <p>On the Role creation screen, Admin will be able to fill the following fields:</p> <ul style="list-style-type: none"> - Role Name - Role Management <ul style="list-style-type: none"> Check box: <ul style="list-style-type: none"> • Access Yes/No? – Admin will select if new roles should have access to the Role management module. • If Admin selects yes, Admins needs to select the rights given to the respective role i.e.; create, edit, and delete. - User Management <ul style="list-style-type: none"> Check box: <ul style="list-style-type: none"> • Access Yes/No? – Admin will select if new roles should have access to the User management module. • If Admin selects yes, Admins needs to select the rights given to the respective role i.e.; create, edit, and delete. - Project <ul style="list-style-type: none"> Check box: <ul style="list-style-type: none"> • Access Yes/No? – Admin will select if new roles should have access to the Project module. • If Admin selects yes, Admins needs to select the rights given to the respective role i.e.; create, edit, and delete. - Recipe <ul style="list-style-type: none"> Check box: <ul style="list-style-type: none"> • Access Yes/No? – Admin will select if new roles should have access to the Recipe module.
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	<ul style="list-style-type: none"> • If Admin selects yes, Admins needs to select the rights given to the respective role i.e.; create, edit, and delete. <p>- Testing</p> <p>Check box:</p> <ul style="list-style-type: none"> • Access Yes/No? – Admin will select if new roles should have access to the Testing module. • If Admin selects yes, Admins needs to select the rights given to the respective role i.e.; create, edit, and delete. <p>- Dashboard</p> <p>Check box:</p> <ul style="list-style-type: none"> • Access Yes/No? – Admin will select if new roles should have access to the Dashboard. <p>Note: No values can be modified on the dashboard or recipe details.</p> <p>- Master Tables</p> <p>Check box:</p> <ul style="list-style-type: none"> • Access Yes/No? – Admin will select if new roles should have access to the Master Tables. • If Admin selects yes, Admins needs to select the rights given to the respective role i.e.; create, edit, and delete. <p>With the click of the “back” button, Admin can navigate back to the role master table.</p> <p>With the click of the “Edit” button, under the action column in the table, the admin will land on the respective role edit screen.</p> <p>Admin will be able to edit the following pre-filled data fields:</p> <ul style="list-style-type: none"> - Role Name - Role Management Check box: Need to select the rights given to the respective role i.e.; create, edit, delete, and view. - User Management Check box: Need to select the rights given to the respective role i.e.; Yes or No. - Project Check box: Need to select the rights given to the respective role i.e.; Yes or No. - Recipe Check box: Need to select the rights given to the respective role i.e.; Yes or No.
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	<ul style="list-style-type: none"> - Testing: Need to select the rights given to the respective role i.e.; Yes or No. - Dashboard: Need to select the rights given to the respective role i.e.; Yes or No. <p>The Admin will be able to edit a role.</p> <p>The admin will be able to delete the roles other than the Administrator.</p> <p>The Admin will be able view the roles through the view only option/</p> <p>The Admin will not be able to update/delete the administrator role.</p> <p>Reference: Wireframe – New/Edit Role</p>	
Fields and Validation	Wireframe: Role Master	
	Search	Button
	Reset Filter	Link
	Create New Role	Button
	Edit	Button
	View	Button
	Delete	Button
	Wireframe: Create/Edit Role	
	Role Name	Text Field
	Role Management	Check box
	User Management	Check box
	Project	Check Box
	Recipe	Checkbox

	Save	Button
--	------	--------

Wireframe: Role Master

poracomp

Dashboard

Role Master

Manage Users

Materials

Projects

Recipe







Testing

Master Tables

Back

Role Masters

ADD NEW ROLE

Roles	Action
<input type="text"/>	<input type="text"/>
Administrator	
Laboratory User	 
Sales	 
Management User	 

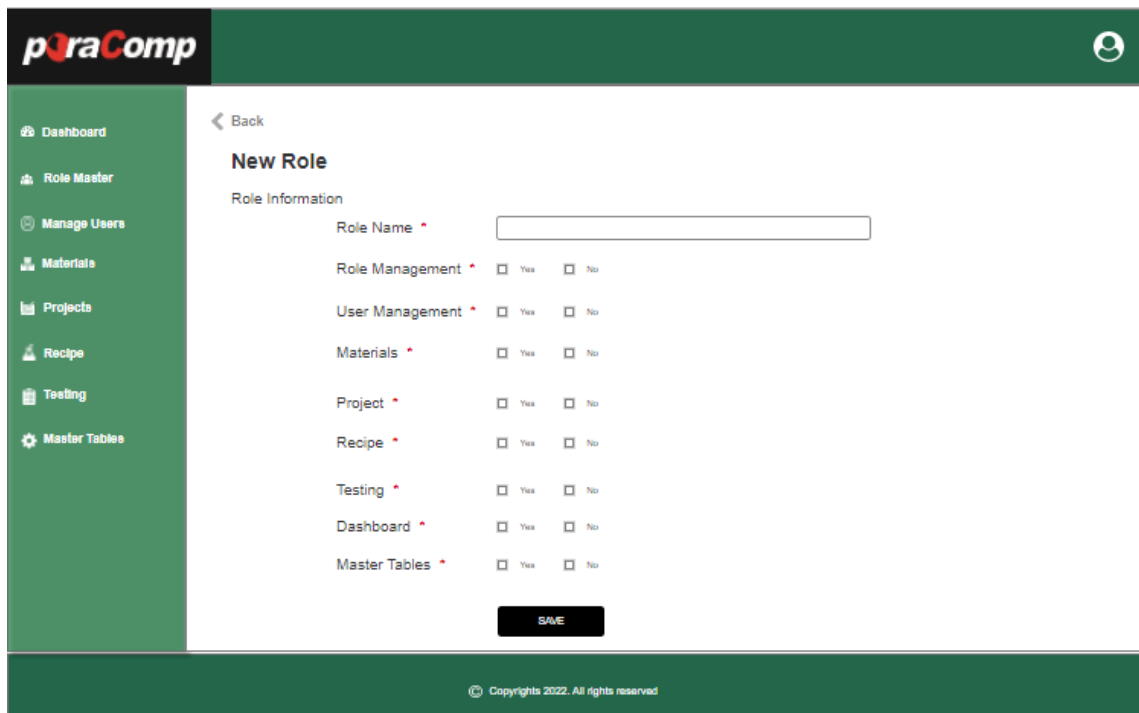
Show page:

1

 of 10 [Previous](#) [Next >](#)

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Wireframe: Create/edit new Role



paraComp

Dashboard
Role Master
Manage Users
Materials
Projects
Recipe
Testing
Master Tables

Back

New Role

Role Information

Role Name *

Role Management * ☐ Yes ☐ No

User Management * ☐ Yes ☐ No

Materials * ☐ Yes ☐ No

Project * ☐ Yes ☐ No

Recipe * ☐ Yes ☐ No

Testing * ☐ Yes ☐ No

Dashboard * ☐ Yes ☐ No

Master Tables * ☐ Yes ☐ No

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Manage Users

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to view the list of users using the platform.
Pre - Condition	Admin has logged in using a valid email ID.
Post - Condition	Admin will be able to access the user's page and perform available activities
Business Rules / Logic	<p>Following fields will be a visible on-screen Manage user screen</p> <p>Manage user list table including following columns :</p> <ul style="list-style-type: none"> - User ID - First Name - Last Name - Email - Account Status - Role

	<ul style="list-style-type: none"> - Phone Number <p>With the click of “Create”, Admin will land on the “create new role” screen.</p> <p>With the click of the “back” button, Admin will be navigated back to the role master table.</p> <p>With the click of the “Search” button, the admin will be able to view the search result on the same page.</p> <p>On click of the “Edit” button from the table under the action, the admin will land on the edit user screen.</p> <p><u>Pagination</u> – The user's table will have pagination. Pagination will help users to get an idea of a number of records and navigate easily through big list.</p> <p>Reference: Wireframe – User Master</p> <p><u>New User Creation form-</u></p> <ul style="list-style-type: none"> - User ID – This will be an auto-generated field. The values generated will be in format PRO0001 - First Name (Mandatory Filed) - Last Name (Mandatory Filed) - Email (Mandatory Filed) - Account Status (Mandatory Field) - Role (Mandatory Filed) - Phone Number (Mandatory Filed) <p>The system will throw an error message if values are not added in the mandatory fields.</p> <p>Save – The users will be able to save the record using the save button. If users attempt the exit without saving, the system will show a popup to allow users to confirm the exit without saving.</p> <p>Reference: Wireframe – Create/Edit User</p>
--	---

Fields and Validation	Wireframe: Role Master	
	Search	Button
	Reset Filter	Link
	Create New User	Button
	Edit	Button
	View	Button
	Delete	Button
	Wireframe: Create New User/ Edit User	
	User ID	Auto-generated
	First Name	Text Field
	Last Name	Text Field
	Email	Text Field
	Account Status	Drop-Down
	Role	Drop-Down
	Phone Number	Text Field
	Save	Button
	Back	Button

Wireframe: User Master

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Users

ADD NEW USER

Users ID	Username	Status	Role	Action
PRO0001	Thomas	Active	Administrator	<div><div></div><div></div><div></div></div>
PRO0002	Rachit	Active	Administrator	<div><div></div><div></div><div></div></div>
PRO0003	Gauri	Active	Laboratory User	<div><div></div><div></div><div></div></div>
PRO0004	Deepak	Active	Laboratory User	<div><div></div><div></div><div></div></div>
PRO0005	Ashwani	Inactive	Sales	<div><div></div><div></div><div></div></div>
PRO0006	Shripad	Inactive	Sales	<div><div></div><div></div><div></div></div>

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Wireframe: Create New User/Edit User

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New User

Reset

User Account Information

User ID *
PROD0001

First Name *

Last Name *

Email *

Account Status
Active

Role
Lab User

Phone Number *

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Material Master

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to view the list of Materials.
Pre - Condition	Admin has logged in using a valid email id.
Post - Condition	Admin will be able to access the material master page and perform available activities.
Business Rules / Logic	<p>Admin user has access to material master with creating, read, and update and delete functionality.</p> <p>The following fields will be visible on the screen. (Material master screen)</p> <p>Role master list table including the following columns :</p> <ul style="list-style-type: none"> - Material No. - Type - Designation - Manufacturer - Quantity [Kg] - Storage Location - Density [g/cm³] - MVR/MFR - Test Method - TDS: Will contain a download link for the file uploaded on create screen. - MSDS: Will contain a download link for the file uploaded on create screen. <p>With the click of “Add New Material”, Admin will land on create new material screen.</p> <p>Reference: Wireframe - Role Master</p> <p>On the material creation screen, Admin will be able to fill the following fields:</p> <ul style="list-style-type: none"> - Material Name - Type - Manufacturer: Values in search are fetched from Manufacturer Master

	<ul style="list-style-type: none"> - Supplier: Values in search are fetched from Supplier Master - Quantity [Kg] - Storage Location - Density [g/cm³] - MVR/MFR: Values in the dropdown will be fixed as below. <ul style="list-style-type: none"> • 190 °C/2,16 kg • 190 °C/5 kg • 190 °C/21,6 kg • 200 °C/5 kg • 220 °C/10 kg • 230 °C/2,16 kg • 230 °C/3,8 kg • 230 °C/5 kg • 250 °C/2,16 kg • 260 °C/2,16 kg • 280 °C/2,16 kg • 300 °C/1,2 kg • 330 °C/2,16 kg • 340 °C/2,16 kg - Test Method - TDS - MSDS - Description <p>Save – The Admin will be able to save the record using the save button. If users attempt the exit without saving, the system will show a popup to allow users to confirm the exit without saving.</p> <p>With the click of the “back” button, can navigate back to the role master table.</p> <p>With the click of the “Edit” button, under the action column in the table, the admin will land on the respective material edit screen.</p> <p>With the click of the “Export” button, the admin will be able to export the material data in excel format. Admin will be able to select all or multiple rows to be exported to the excel sheet.</p>
--	--

	<p>With the click of the “Delete” button, Admin will be able to delete the material records.</p> <p>Note: When the user attempts to delete a material record, the user will be shown an alert popup to confirm the deleting.</p> <p>Pagination – The Materials table will have pagination. Pagination will help users to get an idea of a number of records and navigate easily through big list.</p> <p>Reference: Wireframe – New Role</p>	
Fields and Validation	Wireframe: Material Master	
	Search	Button
	Reset Filter	Link
	Create New Material	Button
	Edit	Button
	View	Button
	Delete	Button
	Export	Button
	Wireframe: Create/Edit Material	
	Material Name	Text Field
	Polymer Type	Text Field
	Additive Type	Text Field
	Manufacturer	Text Field with search
	Supplier	Text Field with search
	Quantity	Text Field
	Storage Location	Dropdown

	Density	Text Field
	MVR/MFR	Dropdown
	Test Method	Dropdown
	TDS	Upload PDF
	MSDS	Upload PDF
	Description	Text Field
	Save	Button

Wireframe: Material Master

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Materials

ADD NEW MATERIAL

Material No.	Additive	Main Polymer	Name	Manufacturer	Quantity [Kg]	Storage Location	Density [g/cm3]	MVR/MFR	Test Method	TDS	MSDS	Action
034	Add	Add	PP 100 CA50	Ineos	100	KC	0.94	50	MVR (230°C/2.15kg)			
035	Add	Add	HPP 100-GA09	BASF	50	KC	1	9	MVR (230°C/2.15kg)			
036	PC	PC	HPP 100-GA09	Sovitec	25	KC	2.3	25	MVR (230°C/2.15kg)			
037	TPU	TPU	Moplen RP 398U	EYK	1	KC	0.90	22	MVR (300°C/1.2kg)			

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New Material

Reset

Material Information

Material Name *

Manufacturer *

Q

Type Manufacturer Name

+

Additive *

Q

Type Additive Name

+

Density [g/cm3]

Test Method

TDS (Upload PDF)

Choose File

No file chosen

Description

This is a dummy description.

Storage Location

Lager1

Supplier *

Q

Type Supplier Name

+

Main Polymer *

Q

Type Polymer Name

+

Quantity [Kg]

MVR/MFR

MSDS (Upload PDF)

Choose File

No file chosen

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Project List

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to view the list of projects.
Pre - Condition	Admin has logged in using a valid email id.
Post - Condition	Admin will be able to access the project list and perform available activities.
Business Rules / Logic	<p>Admin user has access to project list with creating, read, update and delete functionality.</p> <p>The following fields will be visible on the screen. (project list screen)</p> <p>project list table including the following columns :</p> <ul style="list-style-type: none"> - Area - Project Name - Project Number - Project Type - Priority - Status - Start Date - End Date - Status - Edit - Delete <p>With the click of “Add New Project”, Admin will land on create new Project screen.</p> <p>Reference: Wireframe - Project List</p> <p>On the Project creation screen, Admin will be able to fill the following fields:</p> <ul style="list-style-type: none"> - Project ID - Status - Project Type

	<p>Project Type will be a dropdown with fixed values as Pre-development, Application development, Service.</p> <ul style="list-style-type: none"> - The area will be a dropdown with fixed values as Rotomolding, Injection molding, Blow molding. - Project Name - Project Description - Project Start date - Project End date - Project Priority - Save <p>Save – The Admin will be able to save the record using the save button. If users attempt the exit without saving, the system will show a popup to allow users to confirm the exit without saving.</p> <p>When clicked on the “back” button, the admin can navigate back to the Project list screen.</p> <p>When clicked on the “Edit” button, under the action column in the table, the admin will land on the respective project edit screen.</p> <p>When clicked on the “Export” button, the admin will be able to export the project data in excel format. Admin will be able to select all or multiple rows to be exported to the excel sheet.</p> <p>On clicking the “Delete” button, the admin will be able to delete a project. The admin will be prompted with a confirmation popup to confirm the delete. On confirming, the recipe record will be deleted.</p> <p>Pagination – The Projects table will have pagination. Pagination will help users to get an idea of a number of records and navigate easily through a big list.</p> <p>Reference: Wireframe – Create/Edit Project</p>		
Fields and Validation	<p>Wireframe: Project List</p> <table border="1" data-bbox="570 1766 1430 1837"> <tr> <td data-bbox="570 1766 1000 1837">Search</td><td data-bbox="1000 1766 1430 1837">Button</td></tr> </table>	Search	Button
Search	Button		

	Reset Filter	Link
	Add New Project	Button
	Edit	Button
	View	Button
	Delete	Button
	Export	Button
	Wireframe: Create/Edit Project	
	Project ID	Auto-generated
	Project Type	Dropdown
	Area	Dropdown
	Project Name	Text Field
	Project Description	Text Field
	Project Start Date	Date
	Project End Date	Date
	Project Priority	Dropdown
	Save	Button


Wireframe: Project List



















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ADD NEW PROJECT

Area	Project Name	Project Number	Project Type	Priority	Status	Start Date	End Date	Status	
Rotomoulding	Use of Poraver in the rotational molding process (Solvachem)	18-AE-0001	Predevelopment	High	Ongoing	08.11.2018	08.02.2019	70%	  
Poraver PP	Poraver 0.04 - 0.125 mm in i-PP (homo, MVR50)	18-VE-0002	Application Development	High	Ongoing	08.11.2018	08.02.2019	30%	  
Mikrover PP	Microver in i-PP (homo, MVR 50)	18-VE-0003	Service	Low	Completed	08.11.2018	08.02.2019	100%	  
poraSphere in PP	poraSpheres <90µm (V180901) in i-PP (homo, MVR 50)	18-VE-0004	Service	Low	Completed	08.11.2018	08.02.2019	100%	  
Material Screening	Poraver 0.25 - 0.50 mm in i-PP (homo, MVR 50)	18-VE-0005	Service	Medium	Planned	08.11.2018	08.02.2019	0%	  
Material Screening	ShiReady-to-use Compound vs. Masterbatch	18-VE-0006	Application Development	Medium	Planned	08.11.2018	08.02.2019	0%	  

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New Project

Reset

Project Information

Project ID *

18-AE-0001

Status *

Planned

Project type

Predevelopment

Area

Rotomoulding

Project Name *

Use of Poraver in the rotational molding process (Solvachem)

Project Description *

Project Start Date

Project End Date

Project Priority

High

SAVE



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Recipe List

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to view the list of Recipes.
Pre - Condition	Admin has logged in using a valid email ID/user ID and password.
Post - Condition	Admin will be able to access the Recipe list and perform available activities.
Business Rules / Logic	<p>Admin user has access to recipe list with creating, read, update and delete functionality.</p> <p>The recipe list table includes the following columns :</p> <ul style="list-style-type: none"> - Product Name - Recipe Number The recipe number is auto-generated by the system once the recipe is created. Users will be able to search the recipe in the column. - Main Polymer The Main Polymer record is selected from the polymer type master. - Additive Additive value will be fetched from the recipe master. - Composition The composition is added as line items during the creation of the recipe. - Project ID The project ID is selected and assigned during the creation of the recipe. - Compounding Data Updated through create recipe screen - Options With the help of options that are edit, and delete, the users will be able to update the recipe information or delete the recipe. <p>With the click on “Add New Recipe”, Admin will redirect to create new Recipe screen.</p>

	<p>With a click on the “back” button, Admin can navigate back to the Recipe list screen.</p> <p>With the click on the “Edit” button, under the action column in the table, the admin will land on the respective recipe edit screen.</p> <p>With the click on the “Delete” button, under the options column in the table, the admin will be prompted if he is sure about deleting. On confirming the recipe record will be deleted.</p> <p>With the click on the “Export” button, the admin will be able to export the recipe data in the excel format. The users will be able to select all or multiple rows to be exported in the excel sheet.</p> <p>The users will be able to filter the list column with the multi-select option. The user will type the search options and enter them, the system will display the rows with the matching records.</p> <p>Reference: Wireframe – Recipe List</p>	
	Wireframe: Recipe List	
Fields and Validation	Search	Button
	Reset Filter	Link
	Add New Project	Button
	View	Button
	Edit	Button
	Delete	Button
	Export	Button


Wireframe: Recipe List



















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Recipe List



+
ADD NEW RECIPE

Product Name	Recipe Number	Main Polymer	Additive	Composition	Project ID	Compounding Data	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
PRO0132	001	PP-H	P004	70% PP 100 CA50 30% pSph <90µm V160901	19-VE-0008	00031.xlsx	  
PRO0133	002	PP-H	PP04	85% PP 100 CA50 15% pSph <90µm V170517	19-VE-0013	00032.xlsx	  
PRO0137	003	PP-H	MV	70% PP 100 CA50 30% pSph <90µm V170517	19-VE-0026	00033.xlsx	  
PRO0139	004	PP-H	MV	85% PP 100 CA50 15% P255	19-VE-0012	00034.xlsx	  
PRO0130	005	PP-H	pSph <90µm V170517	70% PP 100 CA50 30% P255	19-VE-0012	00035.xlsx	  
PRO0141	006	PP-H	pSph <90µm V170517	75% PP 100 CA50 25% Nordkrome 40	19-VE-0012	00036.xlsx	  

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Create/Edit Recipe

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to create a new recipe & edit the recipe in the system.
Pre - Condition	Admin has logged in using a valid email ID/user ID and password.
Post - Condition	Admin will be able to access the Recipe module and create a new recipe and update the recipe.
Business Rules / Logic	Admin user has access to the recipe list with creating, read, update and delete functionality. On clicking the “create new recipe” button, the admin will redirect to the create recipe form page. Users can redirect to the

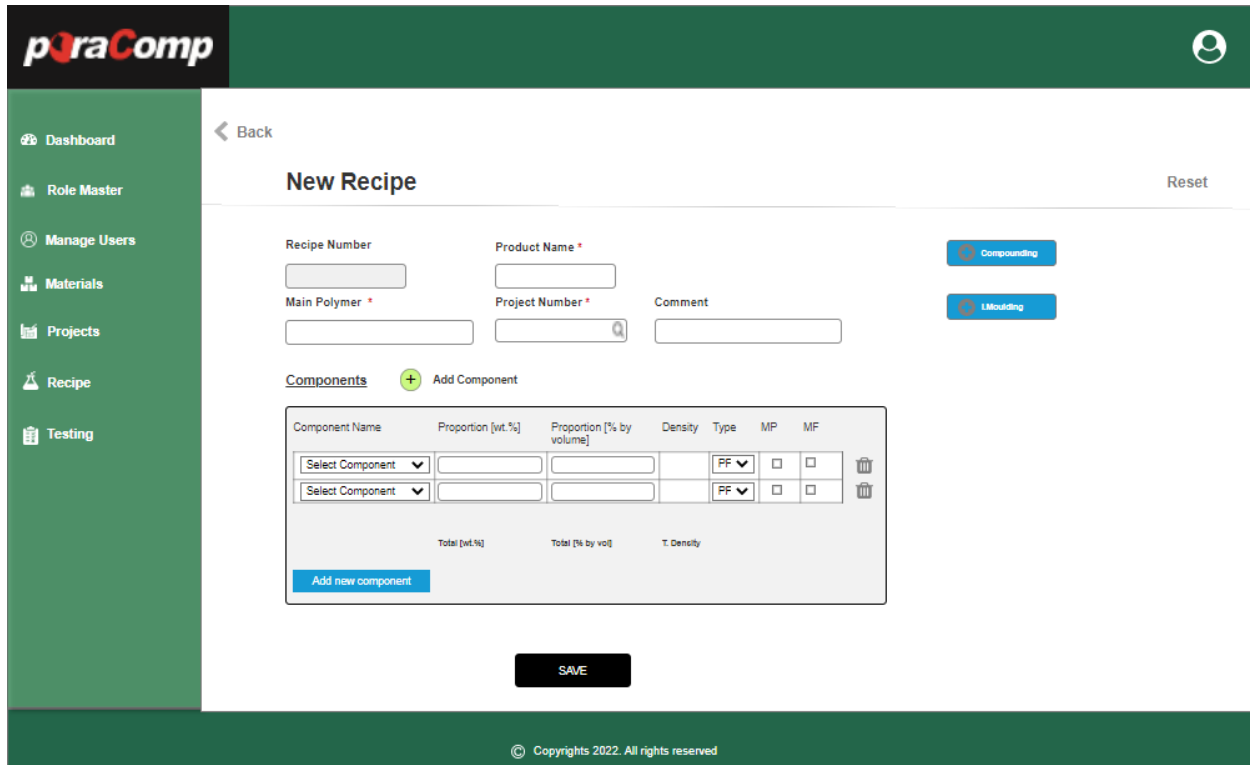
	<p>edit recipe screen by clicking the “edit” button in the recipe column.</p> <p>The create/edit recipe form will consist below fields –</p> <p>Recipe Number – The recipe number will be auto-generated by the system when the user creates a new recipe.</p> <p>Product Name – The Product name will be a name given to a recipe. It will be a mandatory text field.</p> <p>Compounding data – This will be a text field where the user will be able to add text.</p> <p>Additive – This will be a text where the user will be able to add from the dropdown.</p> <p>Project Number – The user will be able to assign multiple project numbers to the recipe. It will be a search & multi-selection mandatory field. The project values will be fetched from the project master.</p> <p>Main Polymer – The main polymer will be a mandatory search and multi-select field. The search values will be fetched from the polymer master.</p> <p>Comment - It will be a free text field to add a comment. It will be non-mandatory.</p> <p>Components Line Items –</p> <p>Users will be able to add components to the recipe as line items. Below will be the fields for the new line item.</p> <p>Component name – The user will be able to select a new component from the dropdown. The values in the component name will be fetched from the material master. It is a mandatory part of the line item.</p> <p>Note:-</p> <ol style="list-style-type: none"> 1. The dropdown values for the components will be fetched from the material master.
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	<ol style="list-style-type: none"> 2. If a component is not available in the dropdown, the user will be able to add the material using the “+” add component button. 3. Once the component is added and saved the user will redirect back to the recipe creation screen to add the newly created component. <p>Proportion [Wt. %] – The user will be able to add numerical value as % of the component to be added in the recipe. A user will not be allowed to enter more than 100% of the component.</p> <p>The field will be mandatory.</p> <p>Total – The total Wt. % Proportion will be displayed at the end of the column for all added components.</p> <p>Proportion [V. %] – The user will be able to add numerical value as % of the component to be added in the recipe. A user will not be allowed to enter more than 100% of the component.</p> <p>Total – The total V. % Proportion will be displayed at the end of the column for all added components.</p> <p>The field will be mandatory.</p> <p>Density – Density is a numerical value. It will be mandatory.</p> <p>Total – The total density will be displayed at the end of the column for all added components</p> <p>Type – The Type will be a dropdown. The drop-down will have fixed values.</p> <p>MP – Checkbox.</p> <p>MF – Checkbox.</p> <p>Delete – The users will be able to delete the component line item.</p> <p>Save – After adding all the mandatory values in the component line item, the users will be able to save the recipe using the save button.</p> <p>Once the recipe is saved successfully, the recipe will be updated in the recipe list and the user will redirect to the recipe list.</p>
--	---

	<p>A confirmation message will be displayed for the save.</p> <p>If users attempt the exit without saving, the system will show a popup to allow users to confirm the exit without saving.</p> <p>Add Injection Molding Button– Clicking on the add injection molding button will redirect the users to the new injection molding page. Once the record is added it will be updated under the recipe.</p> <p>Add Compounding Button- Clicking on the “add compounding” button will redirect the users to the new injection molding page. Once the record is added it will be updated under the recipe.</p> <p>Reference: Wireframe – Create Recipe</p>	
Fields and Validation	Wireframe: New Recipe	
	Recipe Number	Auto-generated
	Product Name*	Text Field
	Compounding data	Text Field
	Additive	Dropdown (Additive Master)
	Main Polymer*	Search & Multi-Select
	Project Number*	Search & Multi-select
	Comment	Text box
	Component Line Items	
	Component Name*	Dropdown
	Proportion [wt.%]*	Numeric
	Proportion [v.%]*	Numeric
	Density	Numeric
	Type	Dropdown

	MP	Checkbox
	MF	Check
	Add new Component	Button
	Delete Component	Button
	Add Component	Button
	Save	Button
	Compounding	Button
	Injection Molding	Button

Wireframe: Create New Recipe



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Recipe Number Product Name * [Compounding](#)

Main Polymer * Project Number * Comment [Injection Molding](#)

Components [+ Add Component](#)

Component Name	Proportion [wt.%]	Proportion [% by volume]	Density	Type	MP	MF
<input type="text" value="Select Component"/>	<input type="text"/>	<input type="text"/>		FF <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text" value="Select Component"/>	<input type="text"/>	<input type="text"/>		FF <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total [wt.%]		Total [% by vol]		T. Density		

[Add new component](#)

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Add/Edit Injection Molding for recipe

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to add an injection molding record to the recipe.
Pre - Condition	Admin has logged in using a valid email ID/user ID and password.
Post - Condition	A new injection molding record will be added to the recipe.
Business Rules / Logic	<p>Admin users will have access to the recipe list with creating, read, update and delete functionality.</p> <p>On clicking the “create new recipe” or edit recipe button, the admin will redirect to the create/edit recipe form page.</p> <p>Add Injection molding -</p>

	<p>Once the recipe record is saved in the system, the admin will be able to add an injection molding record.</p> <p>The recipe page will have an, “Add injection molding” button. The users will be redirected to the Injection molding screen.</p> <p>The Injection molding screen will have the below fields.</p> <p>Project ID – The Project ID will be a search and multi-select option. As the user starts the system will show the matching results. Users will be able to select the search results.</p> <p>Parameter Set – The parameter set will be automatically generated when a new Injection molding field is created. It will be a non-editable field.</p> <p>Recipe number – The user will be able to add the recipe number.</p> <p>Repetition – The user will be able to add/edit the repetition number. Using the “-”, and “+” button the users will be able to increase, and decrease the repetition number.</p> <p>Reference – Checkbox.</p> <p>Additive – The additive will be a text box.</p> <p>Pre-treatment – The pre-treatment will have two checkboxes. None and Dry Test. The user will be able to select both or either one.</p> <p>Drying Temperature – Drying Temperature will be a numeric input box. It will be recorded as degrees Celsius.</p> <p>Drying time – The duration will be a numeric field. It will be recorded as h.</p> <p>Residual Moisture – The residual moisture will be a numerical field. It is recorded as %.</p> <p>Processing Moisture – The processing moisture will be a numerical field.</p>
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	<p>Not Measured – Check box.</p> <p>Processing Moisture – The processing moisture will be a text field.</p> <p>Plasticizing Volume – The Plasticizing volume will be a numerical field. It will be recorded as cm³.</p> <p>Decompression – The decompression volume will be a numerical field. It will be recorded as cm³.</p> <p>Switching Point – The switching point will be a numerical field. It will be recorded as cm³.</p> <p>Holding Pressure – The holding pressure will be a numerical field. It will be recorded as the bar.</p> <p>Screw speed – The screw speed will be a numerical field. It will be recorded as m/s.</p> <p>Injection Speed – Injection speed will be a numerical value, it will be recorded as cm³/s.</p> <p>Injection Pressure – Injection Pressure will be a numerical value. It will be recorded as the bar.</p> <p>Temperature Zone – The temperature zone will be a numeric text field. It will be recorded in degrees Celsius.</p> <p>Melt Temperature - The melt temperature will be a numeric text field. It will be recorded in degrees Celsius.</p> <p>Nozzle Temperature - The nozzle temperature will be a numeric text field. It will be recorded in degrees Celsius.</p> <p>Mold Temperature - The Mould temperature will be a numeric text field. It will be recorded in degrees Celsius.</p> <p>Save - Once the user adds/edits the injection molding information, the user will be able to save the entered record.</p>
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	<p>Once the record is saved, the users will be redirected to the recipe details screen for the recipe for which the record is added.</p> <p>The system will display a message, “Injection molding record added” and redirect the user to the update recipe screen.</p> <p>If users attempt the exit without saving, the system will show a popup to allow users to confirm the exit without saving.</p> <p>Injection Molding records list</p> <p>The Injection molding records will be updated under the injection molding table for the respective recipe.</p> <p>The users will be able to view and edit and delete the injection molding for the recipe.</p> <p>Reference: Wireframe – Edit Recipe, Injection Molding.</p>																						
	<table><tr><td colspan="2">Wireframe: New Injection Molding</td></tr><tr><td>Product ID*</td><td>Search and Multi-select</td></tr><tr><td>Parameter Set</td><td>Auto-generated, Read-only</td></tr><tr><td>Recipe Number</td><td>Dropdown</td></tr><tr><td>Repetition</td><td>Numeric, Increase/Decrease option.</td></tr><tr><td>Reference Additive</td><td>Text Box</td></tr><tr><td>Pre-treatment</td><td>Checkbox, None, and Dry Test</td></tr><tr><td>Drying Temperature</td><td>Numeric</td></tr><tr><td>Drying Time</td><td>Numeric</td></tr><tr><td>Residual Moisture</td><td>Numeric</td></tr><tr><td>Not Measured</td><td>Checkbox</td></tr></table>	Wireframe: New Injection Molding		Product ID*	Search and Multi-select	Parameter Set	Auto-generated, Read-only	Recipe Number	Dropdown	Repetition	Numeric, Increase/Decrease option.	Reference Additive	Text Box	Pre-treatment	Checkbox, None, and Dry Test	Drying Temperature	Numeric	Drying Time	Numeric	Residual Moisture	Numeric	Not Measured	Checkbox
Wireframe: New Injection Molding																							
Product ID*	Search and Multi-select																						
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Drying Temperature	Numeric																						
Drying Time	Numeric																						
Residual Moisture	Numeric																						
Not Measured	Checkbox																						

	Processing Moisture	Numeric
	Plasticizing Volume	Numeric
	Decompression Volume	Numeric
	Holding Pressure	Numeric
	Back Pressure	Numeric
	Switching Point	Numeric
	Screw Speed	Numeric
	Injection Speed	Numeric
	Injection Pressure	Numeric
	Temperature Zone	Numeric
	Extra Feed Section	Numeric
	Melt Temperature	Numeric
	Nozzle Temperature	Numeric
	Mold Temperature	Numeric

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Injection Moulding

<p>Project ID * <input type="text"/></p> <hr/> <p>Parameter Set <input type="text" value="001"/></p> <p>Recipe Number <input type="text" value="▼"/></p> <p>Repetition <input checked="" type="checkbox"/> <input type="text" value="00"/> <input checked="" type="checkbox"/> Reference Additive <input type="text"/></p> <hr/> <p>Pretreatment <input checked="" type="checkbox"/> None <input checked="" type="checkbox"/> Dry Test</p> <p>Drying Temperature <input type="text"/> °C Drying Time <input type="text"/> h</p> <p>Residual Moisture <input type="text"/> % <input checked="" type="checkbox"/> Not Measured</p> <p>Processing Moisture <input type="text"/></p> <hr/> <p>Plasticizing Volume <input type="text"/> cm³ Decompression volume <input type="text"/> cm³</p> <p>Holding Pressure <input type="text"/> bar Switching point <input type="text"/> cm³</p> <hr/> <p>Screw Speed <input type="text"/> m/s <input type="text"/> mm/s</p> <p>Injection Speed <input type="text" value="225"/> cm³/s Injection Pressure <input type="text" value="22"/> bar</p>	<p>Temperature Zone <input type="text"/> °C Melt Temperature <input type="text"/> °C</p> <p>Nozzle Temperature <input type="text"/> °C Mould Temperature <input type="text"/> °C</p> <div style="text-align: center; margin-top: 20px;"> <input type="button" value="SAVE"/> </div>
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Update Recipe

Reset

Recipe Number

Product Name

Project Number

Comment

001

PRO01928

Solvachem tests the use of Poraver in

Main Polymer *

PP-H

Components

Component Name	Proportion [wt.%]	Proportion [% by volume]	Density	Type	MP	MF
PP 100 CA50	65	65	0.905	PP	<input type="checkbox"/>	<input type="checkbox"/>
PO 004	30	30	0.907	PP	<input type="checkbox"/>	<input type="checkbox"/>

Total [wt.%]

Total [% by vol]

T. Density

Add new component

Save

Compounding

Compounding #	Date	Note	Actions
0101	1/14/2022	Solvachem tests the use of Foraver in the production	
0103	1/26/2022	Solvachem tests the use of Foraver in the production	

Compounding

Injection Moulding

IM #	Date	Note	Actions
0000.101	1/14/2022	Solvachem tests the use of Poraver in the production	
0000.002	1/26/2022	Solvachem tests the use of Poraver in the production	

IMoulding

Add/Edit compounding for recipe

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to add compounding records to the recipe.
Pre - Condition	Admin has logged in using a valid email ID/user ID and password.
Post - Condition	A new compounding record will be added to the recipe.
Business Rules / Logic	<p>Admin users will have access to the recipe list with create, read, update and delete functionality.</p> <p>On clicking the “create new recipe” or edit recipe button, the admin will redirect to the create/edit recipe form page.</p> <p>The admin will be able to view create/edit/view/delete the compounding record for the recipe.</p> <p>Add compounding -</p> <p>Once the recipe record is saved in the system, the admin will be able to add a compounding record.</p> <p>The recipe page will have an, “Add compounding” button. The users will be redirected to the compounding screen.</p> <p>The compounding screen will have the below fields.</p> <p>Compounding number – The compounding number will be a numeric field.</p> <p>Parameter Set – The parameter set will be a numeric read-only field.</p> <p>Date – This will be a date field with date format as dd/mm/yyyy.</p> <p>Note – A note will be a text box.</p> <p>Repetition – A repetition will be a numeric field where the users will have an option to increase/decrease the number.</p>

	<p>Pre-treatment – The pre-treatment will be checkboxes where users will be able to check the box. None or Drying or both.</p> <p>Temperature – The temperature will be a numerical field with the temperature recorded as degrees Celsius.</p> <p>Duration – The duration will be a numerical field.</p> <p>Residual Moisture – The residual moisture will be a numerical field with moisture recorded as %.</p> <p>Not Measured – Not measured will be a checkbox.</p> <p>Dosage</p> <p>The dosage will consist of a table.</p> <p>Component Name – On adding a new component, the users will be able to add components as line items in the dosage table. Users will select a component from the dropdown.</p> <p>Share – The share will be a numerical value where users will add component share in percentage.</p> <p>MF – MF will be a checkbox.</p> <p>2nd – 2ND will be a checkbox.</p> <p>SF – SF will be a checkbox.</p> <p>A, B, C, D, E, F – will be a checkbox.</p> <p>Add Component button – Using the add component button, the users will be able to add a new line item component.</p> <p>Delete – The delete button will allow the users to delete the line item.</p> <p>Total % - The total % will be calculated on the basis of the total % for all the components.</p>
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	<p>Note: The users will not be allowed to add a component with a total component % > 100. The system will throw an error "Component percentage exceeding 100%.</p> <p>Speed Side Feeder 1 – The side feeder will be a numeric field that will be recorded as RPM.</p> <p>Speed Side Feeder 2 – The side feeder will be a numeric field that will be recorded as RPM.</p> <p>Upload Screwconfig – The users will be able to upload a document for screw configuration.</p> <p>Temperature Profile – The users will be able to add the temperature profile in multiple fields.</p> <p>Screw Config – This will have a checkbox option where users will be able to select the checkbox options as standard and/or Modified.</p> <p>Degassing - This will have a checkbox option where users will be able to select the checkbox options as standard and/or Vacuum and/or None and/or FET.</p> <p>Screw Speed – This will be a numerical field that will be recorded as RPM.</p> <p>Torque – This will be a numerical field where the value will be recorded in %.</p> <p>Pressure – The pressure will be a numerical value that will be recorded as the bar.</p> <p>Total Output – Total Output will be a numerical field where the value will be recorded as Kg/h.</p> <p>Granulator – The Granulator will be a numerical field that will be recorded as RPM.</p> <p>Bulk density – Bulk density will be a numerical field that will be recorded as g/l.</p>
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	<p>Cooling section – The cooling section will be a numerical value that will be recorded in CM.</p> <p>Temperature Water Bath – There will be three fields that will accept numerical values stored as degrees Celsius.</p> <p>Melt Pump – The melt pump will be a checkbox.</p> <p>Underwater Pelletizer – This will be a checkbox.</p> <p>Nozzle plate – This will be a checkbox.</p> <p>Notes – Notes will be a Text box.</p> <p>Premix – The premix will be a checkbox.</p> <p>Premix Notes - This will be a text box.</p> <p>Save Button – The Save button will allow the users to save the compounding record in the system.</p> <p>The system will display a message, “Compounding record added” and redirect the user to the update recipe screen.</p> <p>If the user attempts to exit without saving the record, the system will show a popup alerting the user to exit without saving.</p>														
	<table> <tr> <th colspan="2">Wireframe: New Compounding</th></tr> <tr> <td>Compounding Number</td><td>Auto-generated</td></tr> <tr> <td>Parameter Set</td><td>Numeric</td></tr> <tr> <td>Date</td><td>Date</td></tr> <tr> <td>Notes</td><td>Text Box</td></tr> <tr> <td>Repetition</td><td>Numeric, Increase/Decrease option</td></tr> <tr> <td>Pre-treatment</td><td>Checkbox, None, and Drying</td></tr> </table>	Wireframe: New Compounding		Compounding Number	Auto-generated	Parameter Set	Numeric	Date	Date	Notes	Text Box	Repetition	Numeric, Increase/Decrease option	Pre-treatment	Checkbox, None, and Drying
Wireframe: New Compounding															
Compounding Number	Auto-generated														
Parameter Set	Numeric														
Date	Date														
Notes	Text Box														
Repetition	Numeric, Increase/Decrease option														
Pre-treatment	Checkbox, None, and Drying														

	Temperature	Numeric
	Duration	Numeric
	Residual Moisture	Numeric
	Not Measured	Checkbox
	Dosage Table	
	Component Name	Selection
	Share	Numeric
	MF, 2ndF, SF, A, B, C, D, E, F	Checkbox
	Add Component	Button
	Delete	Button
	Speed Side Feeder 1	Numeric
	Speed Side Feeder 2	Numeric
	Upload Screw config	File Upload
	Temperature Profile	Numeric, 13 Fields
	Screw Config	Checkbox, Standard and/or Modified
	Degassing	Checkbox, Standard, Vacuum, None
	Screw Speed	Numeric
	TORQUE	Numeric
	Pressure	Numeric
	Total Output	Numeric
	Granulator	Numeric

	Bulk Density	Numeric
	Cooling Section	Numeric
	Temperature Water Bath	Numeric
	Melt Pump	Checkbox
	Under Water pelletiser	Checkbox
	Nozzle plate	Checkbox
	Notes	Text Box
	Premix	Checkbox
	Premix Notes	Text Box
	Save	Button

Wireframe: Compounding

paraComp

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Compounding



Compound Number001

Parameter Set001Datemm/dd/NoteStandard

Repetition-

Pre-Treatment

None

Drying

Temperature33°CDuration12h

Residual M.86%

Not Measured

Dosage

Component Name	Share [%]	MF	2ndF	SF	A	B	C	D	E	F
PP 100 CA50	20									
PO 004	50									

Total [%]

Add new component.

Speed Side Feeder 1225RPM


Speed Side Feeder 2300RPM

Upload Screwconfig

Choose File

No file chosen

Temperature Profile



100200200200200100200200230230230230

Screw Config

Standard

Modified

Degassing

Standard

Vacuum

None

FET

Screw Speedrpm

Torque%

Pressurebar

Total OutputKg/h

Granulatorrpm

Bulk Densityg/l

Cooling Sectioncm

Temperature Water Bath°C

Melt Pump

Underwater Pelletizer

Nozzle plate

Notes

This is ready for production.

Premix

Premix

Notes

SAVE


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Test List


Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to view the list of Tests.
Pre - Condition	Admin has logged in using a valid email ID/user ID and password.
Post - Condition	Admin will be able to access the Test list and perform available activities.
Business Rules / Logic	<p>Admin user has access to Test list with create, read, update and delete functionality.</p> <p>The recipe list table includes the following columns :</p> <ul style="list-style-type: none"> - Product Name - Recipe Number The recipe number is auto-generated by the system once the recipe is created. Users will be able to search the recipe in the column. - Polymer Type dropdown Recorded from Polymer Type master The Main Polymer record is added to the recipe creation screen. - Mechanical Properties - General Properties - Temperature Properties - Flammability Properties - Electrical Properties - Properties <p>With the click of “Add New Test Data”, Admin will redirect to create a new Test screen.</p> <p>Options</p> <p>With the click of the “back” button, can navigate back to the dashboard screen.</p>


	<p>With the click of the “Edit” button, under the action column in the table, the admin will land on the respective test edit screen.</p> <p>With the click of the “Delete” button, under the options column in the table, the admin will be able to delete the test.</p> <p>With the click of the “View” button, the admin will be able to open the test data in the view mode.</p> <p>With the click of the “Export” button, the admin will be able to export the recipe data in excel format. The users will be able to select all or multiple rows to be exported in the excel sheet.</p> <p>The users will be able to filter the list column with the multi-select option. The user will type the search options and enter them, the system will display the rows with the matching data.</p> <p>The list will have a pagination option to view more data rows.</p>	
Fields and Validation	Wireframe: Test List	
	Add New Test	Button
	Edit	Button
	Delete	Button
	View	Button
	Export	Button
	Pagination - Next	Button
	Pagination - Previous	Button


Wireframe: Test List





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 Master Tables

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Test List



ADD NEW TEST DATA

Product Name	Recipe Number	Main Polymer	Mechanical Properties	General Properties	Temperature Properties	Flammability Properties	Electrical Properties	Properties	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>							
PRO0132	001	PP-H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	  
PRO0133	002	PP-H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	  
PRO0137	003	PP-H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	  
PRO0139	004	PP-H	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	  
PRO0130	005	PP-H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	  
PRO0141	006	PP-H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	  

show page:

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Create/Edit Test

Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to create a new test & edit the test in the system.
Pre - Condition	Admin has logged in using a valid email ID/user ID and password.
Post - Condition	Admin will be able to access the Testing module and create a new test and update the test.
Business Rules / Logic	<p>Admin user has access to the test list with create, read, update and delete functionality.</p> <p>On clicking the “create a new test” button, the admin will redirect to the create test form page. Users can redirect to the edit test screen by clicking the “edit” button in the recipe column.</p> <p>The create/edit test form will consist below fields –</p> <p>Product Name – The Product name will be a name given to a recipe. It will be a mandatory text field.</p> <p>Recipe Number – The recipe number will be captured from the project name automatically.</p> <p>Comment will be a text field – The matrix polymer will be a mandatory text field.</p> <p>Comment - It will be free text field to add a comment. It will be non-mandatory.</p> <p>Mechanical properties</p> <p>Every mechanical properties will have two numeric input fields, d.a.m and conditioned.</p> <ul style="list-style-type: none"> • Tensile modulus (1 mm/min ISO 527-2) • Stress at yield(50 mm/min ISO 527-2) • Strain at yield(50 mm/min ISO 527-2) • Strain at break(50 mm/min ISO 527-2) • Flexural modulus(2 mm/min ISO 178)

	<ul style="list-style-type: none"> • Flexural strength(2 mm/min ISO 178) • Flexural strain at break(2 mm/min ISO 178) • Charpy impact strength(23°C ISO 179-1/1eU) • Charpy impact strength(-30°C ISO 179-1/1eU) • Charpy notched impact strength(23°C ISO 179-1/1eA) • Charpy notched impact strength(-30°C ISO 179-1/1eA) • Izod-notched impact strength(23°C ISO 180/1A) • Izod-notched impact strength(-20°C ISO 180/1A) • Izod-notched impact strength(-40°C ISO 180/1A) • Shore D Hardness(23°C DIN 53 505) <p>Temperature properties</p> <p>Every Temperature property will have a single field as a text input box.</p> <ul style="list-style-type: none"> • The temperature of deflection under load HDT/A(1,8 MPa ISO 75) • Temperature of deflection under load HDT/B(0,45 MPa ISO 75) • Melting temperature(DSC, 10K/min DIN EN ISO 11357-3) • Coefficients of linear thermal expansion, parallel(23°C bis 80°C ISO 11359-1/2) • Coefficients of linear thermal expansion, transverse(23°C bis 80°C ISO 11359-1/2) <p>Flammability properties</p> <p>Every flammability property will have a single field as a text input box.</p> <ul style="list-style-type: none"> • Burning rate(UL 94), 1,6mm Wall thickness • GWFI(IEC 60695-2-12) 1,6mm Wall thickness • GWIT(IEC 60695-2-13) 1,6mm Wall thickness • Burning rate (<100 mm/min)(> 1 mm Thickness FMVSS 302) <p>General Properties</p>
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	<p>Every flammability property will have a single field with a text input box.</p> <ul style="list-style-type: none"> • Density(23°C ISO 1183) • Humidity absorption(70°C, 62% r.H. ISO 1110) • Molding shrinkage(flow ISO 294-4) • Molding shrinkage(transverse ISO 294-4) • MFR • MVR <p>Electrical Properties</p> <p>Every electrical property will have a single field as a text input box.</p> <ul style="list-style-type: none"> • Volume resistivity(DIN EN 62631-3-1) • Volume resistivity(DIN EN 62631-3-1) • Surface resistivity(DIN EN 62631-3-2) • Comparative tracking index(Test liquid A IEC 60112) <p>Properties</p> <p>Every below property will have a checkbox.</p> <ul style="list-style-type: none"> • Sustainable • flame retardant • heat stabilized 130 • heat stabilized 160 • heat stabilized 230 • hydrolysis/ chemically stabilized • laser transparent • laser markable • low warpage • reduced density • reduced moisture • electrically neutral • UV-stabilized • surface-modified • adhesion modified • Tribological modified • easy flow
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- nucleated
- process improved
- fluid injection (GIT/WIT/FIT)
- recycled content
- 3D printing/ additive manufacturing

Notes:

1. Once the tests are created, the tests are saved for the respective property for the recipe.
2. If any test is edited, the system will show a message that the test is updated successfully.
3. The users will have an option (button) to choose whether to publish the data on the technical datasheet. If selected “Yes” the data will be visible on the recipe details screen on the dashboard and the PDF. Users will also be able to unpublish the data.

With the click of the “back” button, users will be able to navigate back to the previous screen. (Update recipe screen)

Reference: Wireframe – Create/Edit Recipe 1, Create/Edit Recipe 2.

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Recipe Testing

Mechanical Properties ☒
Temperature Properties ☒
Flammability Properties ☐
General Properties ☐
Electrical Properties ☐
Further Properties ☐

Mechanical Properties		Mechanical Properties		Temperature Properties	
Product Name	Recipe Number	Tensile Modulus (mm/min) ISO 527-2		Stress at Yield (mm/min) ISO 527-2	
PORA1209	2355	d.a.m	Conditioned	d.a.m	Conditioned
Comment		<input type="text"/> 04	<input type="text"/> 18	<input type="text"/> 1	<input type="text"/> 23
		<input type="text"/> 04	mm/min	<input type="text"/> 04	mm/min
Flexural Modulus (mm/min) ISO 178-2	Flexural Strength (mm/min) ISO 527-2	Strain at Yield (mm/min) ISO 527-2	Strain at break (mm/min) ISO 527-2		
d.a.m	Conditioned	d.a.m	Conditioned	d.a.m	Conditioned
<input type="text"/> 4	<input type="text"/> 5	<input type="text"/> 4	<input type="text"/> 04	<input type="text"/> 67	<input type="text"/> 1
<input type="text"/> 04	mm/min	<input type="text"/> 04	mm/min	<input type="text"/> 04	mm/min
Charpy Notched impact strength (mm/min) ISO 179-2	Charpy Notched impact strength (mm/min) ISO 527-2	Flexural Strength break (mm/min) ISO 527-2	Charpy impact strength (mm/min) ISO 527-2		
d.a.m	d.a.m	d.a.m	Conditioned	d.a.m	Conditioned
<input type="text"/> 23	<input type="text"/> 87	<input type="text"/> 4	<input type="text"/> 25	<input type="text"/> 98	<input type="text"/> 23
IZOD Notched impact strength (mm/min) ISO 180-2	Shore Hardness (mm/min) ISO 527-2				
d.a.m	Conditioned	d.a.m	Conditioned		
<input type="text"/> 09	<input type="text"/> 98	<input type="text"/> 09	<input type="text"/> 34		
				Heat Deflection Temperature T₅ Temperature of deflection under load HDT(A)(0,45 MPa) ISO 75 Temperature C <input type="text"/> 27 <input type="text"/> 92 Melting temperature 10K/m DIN EN ISO 75 Temperature C <input type="text"/> 23 <input type="text"/> Coefficient of linear thermal expansion, transverse 28 C BIS 80 C ISO 11359-1/2 Temperature C <input type="text"/> 87 <input type="text"/>	

SAVE & NEXT
Add to Technical Data Sheet

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PORAComp

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Recipe Testing

Mechanical Properties
Temperature Properties
Flammability Properties
General Properties
Electrical Properties
Properties

Product Name	Recipe Number	Comment
<input type="text" value="PORA912"/>	<input type="text" value="1928"/>	<input type="text"/>

Flammability

Burning rate UL-94, 1.6 mm wall Thickness	GWI (IEC 60695-2-12)	GWI (IEC 60695-2-13)	Burning rate (<100 mm/min) > 1mm Thickness
Class	Temperature	Temperature	d.m
<input type="text" value="12"/>	<input type="text" value="37"/>	<input type="text" value="d.m 97"/>	<input type="text" value="45"/> <input type="text" value="56"/>

General Properties

Density 23 C ISO 1183	Humidity absorption 70 c, 62% rH ISO 1110	Modal Shrinkage flow ISO 294-4	Modal Shrinkage Transverse ISO 294-4
Class	Class	Class	Class
<input type="text" value="23"/>	<input type="text" value="22"/>	<input type="text" value="87"/>	<input type="text" value="90"/>
MVR	MVR		
<input type="text" value="12"/>	<input type="text" value="23"/>		

Flammability

Volume resistivity IEC60093	Volume resistivity IEC60093	Surface resistivity (DIN EN 62631-3-2)	Comparative tracking index (Test liquid A IEC 60112)
d.m	d.m	d.m	
<input type="text" value="12"/>	<input type="text" value="56"/>	<input type="text" value="78"/>	<input type="text" value="12"/>

Properties

Sustainable	Impact Modified <input type="checkbox"/>	Flame retardent <input type="checkbox"/>	Heat stabilized 130 <input type="checkbox"/>
Heat stabilized 160	Heat stabilized 230	Hydrolysis/Chemical Stabilized	Laser Transperen
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laser Markable	Low warpage	Reduced Density	Reduced Moisture
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electrically neutral	UV-stabilized	Adhesion Modified	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Tribological Modified	Easy Flow	Nucleated	Process Improved
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Injection (GIT/WIT/FIT)	Recycled Content	3D Printing/Additive Manufacturing	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

SAVE

Add to Technical Data Sheet


Master Tables


Actors	Admin
Interface	Web
Requirement Definition	Admin will be able to add/update values in the master table.
Pre - Condition	Admin has logged in using a valid email ID/user ID and password.
Post - Condition	Admin will be able to access the Master Table module and add/edit/delete master table values.
Business Rules / Logic	<p>Admin user has access the master table list with update functionality. Users will redirect to the edit master selected by clicking the “edit” button in the Action column.</p> <p><u>Manufacturer Master</u></p> <ul style="list-style-type: none"> • The user will be able to add/update/delete values for the manufacturer. • On clicking the + Add Manufacturer button, the user will redirect to the new Manufacturer screen. <p><u>Supplier Master</u></p> <ul style="list-style-type: none"> • The user will be able to add/update/delete values for the supplier. • On clicking the + Add supplier button, the user will redirect to the new supplier screen. <p><u>Main Polymer Master</u></p> <ul style="list-style-type: none"> • The user will be able to add/update/delete values for the polymer. • On clicking the + Add Polymer button, the user will redirect to the new polymer screen. <p><u>Additive Master</u></p> <ul style="list-style-type: none"> • The user will be able to add/update/delete values for the

	<p>Additive.</p> <ul style="list-style-type: none"> On clicking the + Add Polymer button, the user will redirect to the new Additive screen. <p>The users will be shown a message on the screen for a successful update of the values in the master.</p> <p>The users will be prompted an alert to confirm delete in case they select to delete a value in the master.</p> <p>If the users attempts to exit without saving the records in the create /edit master form, the users will be displayed a message to confirm exit without Saving.</p>	
Fields and Validation	Wireframe: Master Table (List)	
	Table Name	Column
	Actions: Edit	Button
	View	Button
	Pagination Options	
	Wireframe: Contacts Master (List)	
	Contact Name	Column
	Contact Type	Column
	Action: View, Edit, Delete	Button
	Add new Contact	Button
	Wireframe: Contact Form	
	Contact Type	Radio Button
	Name	Text Field
	Address: Line 1	Text Field
	Address: Line 2	Text Field

	City	Text Field
	State	Text Field
	ZIP	Numeric Field
	Phone	Numeric Field
	Email	Text Field
	Save	Button
	Wireframe: Main Polymer List	
	Type Name	Column
	Action: Edit	Button
	Add new polymer	Button
	Pagination	
	Wireframe: New Main Polymer	
	Name	Text Field
	Save	Button
	Wireframe: Additive List	
	Additive Name	Column
	Action: Edit	Button
	Add Additive polymer	Button
	Pagination	
	Wireframe: New Additive	
	Name	Text Field
	Save	Button

Wireframe: Master Table List








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Master Table

Table	Action
Contacts	
Main Polymer	
Additive	


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Wireframe: Contact Master













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Contacts

ADD NEW CONTACT

Contact Name	Contact Type	Action
<input type="text"/>		
Acko Plastic	Supplier	 
Janssen LLP	Manufacturer	 
GHL Fibre	Manufacturer	 
Proraver Glass	Supplier	 



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Wireframe: Edit Contact Screen

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New Contact

Reset

Contact Type
☐ Manufacturer
☐ Supplier
☐ Both

Name

Address

Line 1

Line 2

City
State
Zip



Phone

Email

SAVE

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Wireframe: Add/Edit Main Polymer

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New Main Polymer

Name

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Wireframe: Add/Edit Additive

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Name

SAVE

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Non-Functional Requirement:

NFA - Non-Functional/ Aspects & Features	Our Implementation
Security	
Web application will be follow free from following vulnerabilities.	<ul style="list-style-type: none"> • Broken Access Control • Injection • SSRF • Vulnerable and outdated components
Password Policies	<ul style="list-style-type: none"> • Password length will be minimum 8 characters. • Password will be expired in 90 calendar days. • Password will not be identical to the previous three (3) passwords. • Password will not be transmitted in the clear or plaintext outside the secure location. • Password will not be displayed when entered. <p>Only authorize person will reset the password.</p>
Login and Accessibility	
Access permissions	<ul style="list-style-type: none"> • Access permissions for application data may only be changed by the system's data administrator. • Create, Read, Update, and Delete (CRUD) levels. • Users will able to access the application depends on access level of users
Performance	
	<ul style="list-style-type: none"> • The web app should be scalable to handle any size of data load. • The web app should function without any lags.

Operating Environment:

The proposed web portal will be compatible with following browser.

Browser	Version	Application Compatibility
Internet Explorer	IE 9.X or onwards	Windows & Linux
Mozilla Firefox	Firefox 25	Windows & Linux
Google Chrome	Google Chrome 30	Windows & Linux
Safari	Safari 5.0 & above	Mac OS

- Responsive/Adaptive Website

For adaptive design, the minimum screen size the website will be built to support is 320px by 480px and the maximum is 1920px by 1080px.

Assumption & Dependencies:

- Web App will support only English language only.
- Web App will work in online mode only.
- Data collected from the forms in the application will be ready to be used by APIs to be integrated with third party systems.
- As per the requirement, only Login, Password reset, Dashboard and recipe details page will be adaptive to mobile devices.
- We haven't considered any special effects and animation for development.
- The client will provide and bear the cost of the email gateway to be integrated. We are considering one email gateway with the proposed application.
- Hosting infrastructure to be maintained by the client.
- We have considered manual testing for the proposed application and the test cases will be submitted on closure
- Any new change/feature requirement which is not mentioned in the document will be considered as a change request.

External Interfaces:

Email Gateway

Technical Details:

Technology Stack

- Frontend - React JS
- Backend - Node JS
- Database - MySQL, Redis
- Cloud - AWS