Pylux User Manual for Pylux v0.1-alpha2

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2016

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1 Introduction

1.1 About Pylux

Pylux is a program written in Python for the manipulation of XML plot files. These plot files can contain information about fixtures, cues, scenes and DMX universes.

In the future, Pylux will be extended with modules that allow for the exporting of documentation in the LATEX format, and creating lighting plots in SVG format.

Bugs and feature requests should be submitted to https://github.com/jackdpage/pylux/issues.

1.2 About this Manual

This manual is intended for general users of Pylux. If you are a developer who wants to contribute to Pylux, you should read the Developer Reference. The first section of this manual details all of the actions that you can enter on the command-line interface of Pylux. The second section goes into more detail about what tags you should use, etc.

2 Command-line Options

Pylux is invoked simply by running the pylux package with Python.

- --help, -h Display the usage message of the program then exit.
- --version, -v Display the version number of the program then exit.
- --file FILE, -f FILE Load the file with path FILE as the plot file on launch.
- --gui, -g Launch Pylux with the graphical user interface. This is not yet implemented. Omitting this flag launches Pylux with its standard CLI interface.
- --verbose, -V Set the verbosity level of output. Don't include to keep logging level at the default of WARNING. Include once for logging level of INFO and include twice for a logging level of DEBUG.

3 Using the Command Line Interface

The command line interface (CLI) is the default interface used by Pylux. It allows for very efficient editing of plot files with very little CPU overhead.

The CLI is interacted with using a series of commands, each of which may have one or more arguments. When the prompt is displayed, the program is waiting for the user to enter one of these commands. Each command is a memorable two character sequence (apart from the utility commands), where the first character is the object that is going to be acted upon and the second character is the action to perform.

3.1 Piping Complex Objects into Commands

Many commands require that you specify an object other than one which can be represented by a simple command line string. For example, the xs command requires that you supply a fixture object as an argument. This is made possible whilst retaining the simplicity of text based entry through the interface reference system.

When you run a listing or filtering command such as x1, you will notice that the objects in the list each have a number which is underlined. This is that objects's interface reference. Using this, you can pipe objects into other commands, simply by specifying the number where the command calls for another object type.

To allow for the efficient manipulation of objects in batch, you can specify more than one object at once using a comma-separated list (provided of course that the command allows for multiple objects to be piped into it) such as a,b,c. You can also specify ranges of numbers if you are piping sequential objects from a list using the format a:b where a and b are the inclusive limits. You can of course use any combination of these formats, such as a:b,c,d:e,f.

If you need to pipe the same object or group of objects into multiple commands, you can use the this reference instead of a number or list of numbers. This points to the last used reference, so will pipe in the same object or objects that were used for the last command, unless the reference list has changed since (i.e. a listing command has been run again).

3.2 Utility Commands

- h Display a list of the available commands for the interactive prompt. This prints the contents of help.txt to the output.
- c Clears the screen of previous input and output. This uses the system screen clearing command. (clear on UNIX, cls on Windows)
- **q** Exit the program and autosave any changes that have been made to the tree.
- Q Exit the program without saving any changes to disk.

3.3 File Commands

- fo *FILE* Open the file with path *FILE* as the plot file. This will override any unsaved buffer associated with the previous plot file, if there was one.
- fw Save the current file buffer to its original location.
- fw PATH Save the current file buffer to a new file with location PATH.
- fg Print the path of the file that is currently loaded.

 ${\tt fn}$ PATH Create an new empty plot file at the location with path PATH and load it as the new plot file

3.4 Metadata Commands

- mG List all the metadata tags associated with the currently loaded plot file.
- ms TAG VALUE Set the value of the metadata with tag TAG to VALUE. If the metadata already exists, it will be overridden.
- mr TAG Remove the piece of metadata from the file which has the name TAG.
- $mg\ TAG$ Get the value of a piece of metadata. Prints the value of the metadata with name TAG on the screen.

3.5 Fixture Commands

- xn TEMPLATE Add a new fixture to the plot. This will load the contents of the fixture file with the name TEMPLATE into the new fixture, including DMX functions. This will not allocate DMX addresses to the fixture, use xA for that.
- xc REF Clone the fixture with interface reference REF into a new fixture. This does not reassign any DMX values.
- x1 List all the fixtures in the plot. This will generate a list of every fixture in the plot, listing an interface reference, the fixture olid, and the fixture UUID.
- xf TAG VALUE List all the fixtures in the plot which have a tag called TAG with a value of VALUE. Like the list function, this will list an interface reference, the fixture olid and UUID, and also the value of the tag that was given for verification purposes.
- xg REF TAG Print the value of TAG for the fixture with interface reference REF.
- xG REF List all the information associated with the fixture with interface reference REF.
- xr REF Remove the fixture with the interface reference REF. This fixture will be removed from the plot, but associated DMX channels will not be removed, use xp for that.
- xs REF TAG VALUE Set the value of TAG in fixture with interface reference REF to VALUE. For a list of standard fixture tags, see subsection 6.2. There are also some shortcuts to set mulitple tags at once, which can be found in the pseudo tags section.

xa REF UNIVERSE ADDR Assign DMX addresses to the fixture with interface reference REF. This will add the fixture to the universe UNIVERSE, beginning at the start address ADDR. ADDR can either be a user-assigned number or auto to allow Pylux to choose the most appropriate start address.

xp REF Remove the fixture with interface reference REF from the plot and also remove any DMX channels associated with it.

3.6 DMX Registry Commands

rl UNIVERSE List all the used channels in UNIVERSE. This will list the DMX address, fixture UUID and function of every channel in the DMX registry with identifier UNIVERSE.

3.7 Cue Commands

qn TYPE LOCATION Append a cue to the cue list. Set the type to TYPE which is either LX, SX or VX and the location tag to LOCATION. LOCATION is the cue line or visual in the script.

ql List all the cues in the cue list, listing their type, location and sort key.

qs $\it CUE\ TAG\ VALUE$ Set the value of $\it TAG$ to $\it VALUE$ for $\it CUE$, where $\it CUE$ is an interface reference list.

gg CUE TAG Print the value of TAG for CUE.

qG CUE Print the value of all tags for CUE.

gr CUE Remove CUE from the cue list.

qm CUE AFTER Adjust the sort keys of the cues so that CUE comes immediately after the cue AFTER in the cue list.

qM CUE BEFORE Adjust the sort keys of the cues so that CUE comes immediately before the cue BEFORE in the cue list.

3.8 Using Extensions

You cannot directly interact with extensions from the editor interface, you must first load the extension using the : command. For example, to load the texlux extension, use :texlux. This will then present you with the interface as defined by that extension which may vary but in practise should be a prompt of the form pylux:extension to indicate to you which extension you are operating in and some commands, much like in the editor interface. The extension defines its own way of returning to editor but this should in general be :: or q.

4 Using the Graphical User Interface

Pylux also comes with a graphical user interface. This is currently in development so most features are not yet implemented. When the GUI is launched, you are presented with a window containing a list of the fixtures in the plot. (The only way to load a plot file is using the -f tag at launch as there is currently no menu.) Each of these fixtures has to the right of it three buttons.

The leftmost button is the only currently functional button and launches a window containing a list of the fixture's data tags. You cannot currently edit the data tags. The other two buttons are for cloning and removing the fixture but this functionality is not yet implemented.

5 Extensions

In the previous sections, we have discussed the usage of the base program in Pylux: editor. This is the program that you will use to edit your plots, however, beyond that, it doesn't do much. That is why Pylux is also bundled with extensions to provide extra functionality. In the current version, Pylux comes bundled with the texlux and plotter extensions.

5.1 texlux

texlux is an extension to the base editor program which allows for the creation of reports in the LATEX format, which can then be post-processed to create a PDF file, or many other formats through the use of an external tool such as Pandoc.

5.1.1 Commands

rn TEMPLATE OUTPUT TITLE Generates a report using the template TEMPLATE, with the title TITLE, writing the output to a file with path OUTPUT.

5.1.2 Processing

texlux uses built-in functions to generate LATEX documents with pre-defined structures. Each built-in function has a corresponding LATEX style file installed in ~/texmf which is required to build the PDF report. Currently the only built-in function is dimmer, which produces a report categorised by dimmer and containing power draw totals.

5.2 plotter

plotter generates, from the fixture list and the fixture's symbol files, a plan view of the lighting plot in SVG format. It will consult the fixture's posX and posY tags to translate the symbol in the output image. It will also refer to the rotation tag to rotate the fixture symbol in the plot. Finally, it will colour the fixture using the hexadecimal colour code in the fixture's colour tag. If the rotation or colour tags are not present, plotter will calculate these when run.

There are also some options that can be set to customise the output of plotter.

5.2.1 Commands

 ${\tt pn}$ ${\tt \it OUTPUT}$. Generates a new SVG plot, writing the output to the file with path ${\tt \it OUTPUT}.$

os OPTION VALUE Set the value of the option with name OPTION to VALUE.

og OPTION Print the value of OPTION to the console.

oG Print the values of all the options.

5.2.2 Options

beam_colour The colour of the beam focus lines. Can be any colour in the legal list of gel colours or auto to make the focus lines the same colour as the fixture from which they come. Default: Black.

beam_width The thickness of the beam focus lines in SVG points. Default: 6.

show_beams Choose whether or not to display the beam focus lines. Must be True or False. Default: True.

6 Standard Tags

Below is a list of standard tags for each section, to advise which tags you should apply to your metadata and fixtures. Also included is a list of pseudo-tags: tags which are not added to the file but actually represent one or more other tags to make adding them easier.

6.1 Standard Metadata Tags

Whilst you can use any name for a tag you wish, there are some standard ones which are used by Pylux and its bundled extensions.

production The name of the production for which the lighting documentation is being produced, e.g. 'Romeo and Juliet'. Used by: texlux.

designer The name of the lighting designer for this production. Used by: texlux.

board_operator The name of the person operating the main lighting board for this production. Used by: texlux.

spot_operator The name of the person operating the primary followspot for this production. Used by: texlux. director The name of the director of the production. Used by: texlux.

venue The location at which the production is taking place. Used by: texlux.

6.2 Standard Fixture Data Tags

dmx_functions This is the parent of a list of empty elements, each of which represents a function that the fixture has that requires the use of a DMX channel. For example, traditional fixtures will have an intensity function whilst modern LED fixtures may have colour and mode functions.

dmx_channels The number of DMX channels that a fixture needs. This is automatically calculated from the dmx_functions tag, so should not be changed manually.

dmx_start_address The start address of this fixture, if it has been addressed. This is automatically assigned using the address function so shouldn't be changed manually.

universe The universe in which the DMX channels for this fixture are located. This too is set when the address command is run so shouldn't be changed by the user.

posX The x position in 2D space where this fixture is located. Measured in metres.

posY The y position in 2D space where this fixture is located. Measured in metres.

focusX The x position in 2D space where the centre of this fixture's beam is focused. Measured in metres.

focusY The y position in 2D space where the centre of this fixture's beam is focused. Measured in metres.

rotation The rotation of this fixture about its centre. Measured anticlockwise from the positive x axis in degrees. This can be automatically calculated if the preceding four data tags are present.

circuit For traditional fixtures only. The circuit into which the fixture is patched. Used by: texlux.

power For traditional fixtures only. The maximum power draw by the lamp in this fixture.

dimmer_uuid For traditional fixtures only. The UUID of the dimmer (which must exist as a separate fixture in the plot file) which is controlling this fixture.

dimmer_chan For traditional fixtures only. The name or number of the dimmer channel by which this fixture is controlled.

gel The manufacturer's code of the gel that is being used in this fixture. The automatic colour calculation currently supports Rosco Supergel and E-colour and the named HTML (X11) colours.

colour A hexadecimal colour code indicating the colour which best represents the gel in this fixture. Can be automatically calculated if gel is present.

6.3 Pseudo Fixture Tags

These tags can be used to set multiple attributes of a fixture at once.

position X, Y Sets posX to X and posY to Y.

focus X, Y Sets focus X to X and focus Y to Y.

dimmer REF CHAN Sets dimmer_uuid to the uuid of the dimmer represented by REF and dimmer_channel to CHAN.

6.4 Standard Cue Tags

Cues are different to fixtures in that their order is important. Pylux can't tell which order cues should go in based on the cue line, and it doesn't understand page numbers. Therefore, each cue has a special attributed called key which determines which order it goes in in the cue list. Use the qm and qM commands to manipulate keys.

type The type of cue, either LX, SX or VX.

location The cue in the script, could be a line or visual cue.

description A human-readable description of what should happen.

scene If this is a lighting cue, the UUID of the scene which is used for it.

A Included Fixture Templates

Here follows a list of the included fixture templates.

Fixture Type	Pylux Short Name
Generic Incandescent	generic
Hutton P650	p650
LEDJ RGB PAR	ledjrgbpar
PAR64 MFL	par64mfl
Strand Patt.23	patt23
Zero88 Betapack 2	betapack2

B Supported Gel Colours

These are the gel names that can be assigned to a fixture and their colour be generated automatically.

B.1 HTML Standard Colours

Standard HTML/X11 named colours. Taken directly from the HTML colour definitions.

Colour Name	Rendered Colour
AliceBlue	#F0F8FF
AntiqueWhite	#FAEBD7
Aqua	#00FFFF
Aquamarine	#7FFFD4
Azure	#F0FFFF
Beige	#F5F5DC
Bisque	#FFE4C4
Black	
BlanchedAlmond	#FFEBCD
Blue	#0000FF
BlueViolet	#8A2BE2
Brown	#A52A2A
BurlyWood	#DEB887
CadetBlue	#5F9EA0
Chartreuse	#7FFF00
Chocolate	#D2691E
Coral	#FF7F50
CornflowerBlue	#6495ED
Cornsilk	#FFF8DC
Crimson	#DC143C
Cyan	#00FFFF
DarkBlue	#00008B
DarkCyan	#008B8B
DarkGoldenrod	#B8860B
DarkGray	#A9A9A9
DarkGreen	#006400
DarkKhaki	#BDB76B
DarkMagenta	#8B008B
${\bf DarkOliveGreen}$	#556B2F
DarkOrange	#FF8C00
DarkOrchid	#9932CC
DarkRed	#8B0000
DarkSalmon	#E9967A
DarkSeaGreen	#8FBC8F
DarkSlateBlue	#483D8B
DarkSlateGray	#2F4F4F
DarkTurquoise	#00CED1
DarkViolet	#9400D3
DeepPink	#FF1493

D 01 D1	
DeepSkyBlue	#00BFFF
DimGray	#696969
DodgerBlue	#1E90FF
FireBrick	#B22222
FloralWhite	#FFFAFO
ForestGreen	#228B22
Fuchsia	#FF00FF
Gainsboro	#DCDCDC
GhostWhite	#F8F8FF
Gold	#FFD700
Goldenrod	#DAA520
Gray	#808080
Green	#008000
GreenYellow	#ADFF2F
Honeydew	#F0FFF0
HotPink	#FF69B4
IndianRed	#CD5C5C
Indigo	#4B0082
Ivory	#FFFFF0
Khaki	#F0E68C
Lavender	#E6E6FA
LavenderBlush	#FFF0F5
LawnGreen	#7CFC00
LemonChiffon	#FFFACD
LightBlue	#ADD8E6
LightCoral	#F08080
LightCyan	#E0FFFF
LightGoldenrodYellow	#FAFAD2
LightGoldenrodYellow LightGreen	#FAFAD2 #90EE90
LightGoldenrodYellow LightGreen LightGrey	#FAFAD2 #90EE90 #D3D3D3
LightGoldenrodYellow LightGreen LightGrey LightPink	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFA07A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFA07A #20B2AA #87CEFA #778899 #B0C4DE #FFFE0 #00FF00 #32CD32 #FAF0E6
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFA07A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFA07A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #800000
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon MediumAquamarine	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #800000 #66CDAA
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon MediumAquamarine MediumBlue	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #800000 #66CDAA #0000CD
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon MediumAquamarine MediumBlue MediumOrchid	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #800000 #66CDAA #0000CD
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon MediumAquamarine MediumBlue MediumOrchid MediumPurple	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFA07A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #800000 #66CDAA #0000CD #BA55D3 #9370DB
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon MediumAquamarine MediumBlue MediumPurple MediumPurple MediumSeaGreen	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #800000 #66CDAA #0000CD #BA55D3 #9370DB #3CB371
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon MediumAquamarine MediumBlue MediumPurple MediumPurple MediumSeaGreen MediumSlateBlue	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #80000 #66CDAA #0000CD #BA55D3 #9370DB #3CB371 #7B68EE
LightGoldenrodYellow LightGreen LightGrey LightPink LightSalmon LightSeaGreen LightSkyBlue LightSlateGray LightSteelBlue LightYellow Lime LimeGreen Linen Magenta Maroon MediumAquamarine MediumBlue MediumPurple MediumPurple MediumSeaGreen	#FAFAD2 #90EE90 #D3D3D3 #FFB6C1 #FFAO7A #20B2AA #87CEFA #778899 #B0C4DE #FFFFE0 #00FF00 #32CD32 #FAF0E6 #FF00FF #800000 #66CDAA #0000CD #BA55D3 #9370DB #3CB371

MediumVioletRed	#C71585
MidnightBlue	#191970
MintCream	#F5FFFA
MistyRose	#FFE4E1
Moccasin	#FFE4B5
NavajoWhite	#FFDEAD
Navy	#000080
OldLace	#FDF5E6
Olive	#808000
OliveDrab	#6B8E23
Orange	#FFA500
OrangeRed	#FF4500
Orchid	#DA70D6
PaleGoldenrod	#EEE8AA
PaleGreen	#98FB98
PaleTurquoise	#AFEEEE
PaleVioletRed	#DB7093
PapayaWhip	#FFEFD5
PeachPuff	#FFDAB9
Peru	#CD853F
Pink	#FFC0CB
Plum	#DDAODD
PowderBlue	#B0E0E6
Purple	#800080
Red	#FF0000
RosyBrown	#BC8F8F
RoyalBlue	#4169E1
SaddleBrown	#8B4513
Salmon	#FA8072
SandyBrown	#F4A460
SeaGreen	#2E8B57
Seashell	#FFF5EE
Sienna	#A0522D
Silver	#COCOCO
SkyBlue	#87CEEB
SlateBlue	#6A5ACD
SlateGray	#708090
Snow	#FFFAFA
SpringGreen	#00FF7F
SteelBlue	#4682B4
Tan	#D2B48C
Teal	#008080
Thistle	#D8BFD8
Tomato	#FF6347
Turquoise	#40E0D0
Violet	#EE82EE
Wheat	#F5DEB3
White	#FFFFFF
WhiteSmoke	#F5F5F5
Yellow	#FFFF00
1	

B.2 Rosco Gels

Colour representations taken from The official Rosco website. Both the gel name and manufacturer code can be used. E-Colour+ gels have an R prefixed to their manufacturer code, Supergel gels have an S prefixed to their manufacturer code.

B.2.1 E-Colour+

Gel Name	Manufacturer Code	Rendered Colour
Rose Pink	R002	#FF40B9
Lavender Tint	R003	#F5E6FF
Medium Bastard Amber	R004	#FAB8AC
Pale Yellow	R007	#FFFFDE
Dark Salmon	R008	#FF5E48
Pale Amber Gold	R009	#FFD28A
Medium Yellow	R010	#FFF30D
Straw Tint	R013	#FFDBA1
Deep Straw	R015	#FDC819
Surprise Peach	R017	#CC5F3D
Fire	R019	#ED2000
Medium Amber	R020	#FF8A24
Gold Amber	R021	#FF4800
Dark Amber	R022	#FF1900
Scarlet	R024	#F00E25
Sunset Red	R025	#FF4B2B
Bright Red	R026	#C70011
Medium Red	R027	#A10000
Plasa Red	R029	#BC0010
Light Pink	R035	#FFB8CE
Medium Pink	R036	#FF6E9E
Pink Carnation	R039	#FACOD8
Dark Magenta	R046	#C5004F
Rose Purple	R048	#C43BFF
Medium Purple	R049	#BE00D4
Light Lavender	R052	#D7BAFF
Paler Lavender	R053	#E5DEFF
Lavender	R058	#9235FD
Mist Blue	R061	#D6E8FF
Pale Blue	R063	#B0D5F7
Sky Blue	R068	#597DFF
Tokyo Blue	R071	#3600B1
Evening Blue	R075	#4C79FF
Just Blue	R079	#3700EB
Deeper Blue	R085	#1A00BF
Lime Green	R088	#BEFF85
Moss Green	R089	#00CD55
Dark Yellow Green	R090	#00870B

C	D100	#F0FF20
Spring Yellow	R100	#F2FF30
Yellow	R101	#FFEBOF
Light Amber Straw	R102	#FFE74A
	R103	#FFE7C4
Deep Amber	R104 R105	#FCD628
Orange		#FF760D
Primary Red	R106	#DE0000
Light Rose English Rose	R107	#FF809F
© .	R108	#FAAD96 #FF919C
Light Salmon Middle Rose	R109	#FFA3CA
	R110	
Dark Pink	R111	#FF63A4
Magenta	R113	#FF004D
Peacock Blue	R115	#00C9BF
Medium Blue Green	R116	#009E96
Steel Blue	R117	#A3E2FF
Light Blue Dark Blue	R118	#00B7FF
	R119	#3300D9
Deep Blue	R120	#2800C9
Leaf Green	R121	#93FF54
Fern Green	R122	#74F55D
Dark Green	R124	#00AB44
Mauve	R126	#D400DB
Smokey Pink	R127	#BB334C
Bright Pink	R128	#FF177F
Heavy Frost	R129	#FFFFFF
Clear	R130	#FFFFFF
Marine Blue	R131	#02E3CC
Medium Blue	R132	#5286FF
Golden Amber	R134	#F5632F
Deep Golden Amber	R135	#FF4A00
Pale Lavender	R136	#E2C7FF
Special Lavender	R137	#B695FC
Pale Green	R138	#B4FFA8
Primary Green	R139	#009107
Summer Blue	R140	#38CAFF
Bright Blue Pale Violet	R141	#00ACF0
	R142	#AA96FF
Pale Navy Blue	R143	#007194
No Color Blue	R144	#4FC4FF
Apricot	R147	#FF7438
Bright Rose	R148	#FF1472
Gold Tint	R151	#FFC0B5
Pale Gold	R152	#FFCAA8
Pale Salmon	R153	#FFB2BA
Pale Rose	R154	#FFB2BA
Chocolate	R156	#C57951
Pink	R157	#FF4551
Deep Orange	R158	#FF5E00
No Color Straw	R159	#FFFAEO

	D101	
Slate Blue	R161	#4AABFF
Bastard Amber	R162	#FFCFA8
Flame Red	R164	#F02225
Daylight Blue	R165	#1CACFF
Pale Red	R166	#FF3352
Lilac Tint	R169	#EBDAF5
Deep Lavender	R170	#DAADFF
Lagoon Blue	R172	#00AACC
Dark Steel Blue	R174	#52B4FF
Loving Amber	R176	#FAA498
Chrome Orange	R179	#FF9900
Dark Lavender	R180	#8B2BFF
Congo Blue	R181	#29007A
Light Red	R182	#CC0000
Moonlight Blue	R183	#00BAF2
Cosmetic Peach	R184	#FFFFFF
Cosmetic Burgundy	R185	#FFFFFF
Cosmetic Silver Rose	R186	#FFFFFF
Cosmetic Rouge	R187	#FFFFFF
Cosmetic Highlight	R188	#FFFFFF
Cosmetic Silver Moss	R189	#FFFFF
Cosmetic Emerald	R190	#FFFFFF
Cosmetic Aqua Blue	R191	#FFFFF
Flesh Pink	R192	#FF639F
Rosy Amber	R193	#FF454B
Surprise Pink	R194	#AC82FF
Zenith Blue	R195	#0003CC
True Blue	R196	#00A1FF
Alice Blue	R197	#1958CF
Palace Blue	R198	#43009C
Regal Blue	R199	#3700EE
Double CT Blue	R200	#0F5BFF
Full CT Blue	R201	#73A9FF
1/2 CT Blue	R202	#B8D5FF
1/4 CT Blue	R203	#E0EDFF
Full CT Orange	R204	#FF9B30
1/2 CT Orange	R205	#FFD28F
1/4 CT Orange	R206	#FFE6B8
CT Orange + .3 Neutral Density	R207	#A86300
CT Orange + .6 Neutral Density	R208	#974400
.3 Neutral Density	R209	#BFBDBD
.6 Neutral Density	R210	#969595
.9 Neutral Density	R211	#636262
LCT Yellow	R212	#FBFFD9
White Flame Green	R213	#E0FCB3
Full Tough Spun	R214	#FFFFF
Half Tough Spun	R215	#FFFFF
White Diffusion	R216	#FFFFF
Blue Diffusion	R217	#FFFFF
Eighth CT Blue	R218	#EBF3FF

Fluorescent Green
1/8 CT Orange
Daylight Blue Frost R224 #FFFFFF Neutral Density Frost R225 #FFFFFF U.V. Filter R226 #FFFFFF Brushed Silk R228 #FFFFFF Quarter Tough Spun R229 #FFFFFF Super Correction WF Green R232 #AD6824 HMI To Tungsten R236 #FFFFFF C.J. to Tungsten R236 #FFF8438 C.S.I. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R241 #1AD8D8 Fluorescent 4300K R242 #5AE2C7 Fluorescent 4300K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R244 #E0FC90 Half Minus Green R246 #F0CD2 Minus Green R248 #FADE28 Half White Diffusion
Daylight Blue Frost R224 #FFFFFF Neutral Density Frost R225 #FFFFFF U.V. Filter R226 #FFFFFF Brushed Silk R228 #FFFFFF Quarter Tough Spun R229 #FFFFFF Super Correction WF Green R232 #AD6824 HMI To Tungsten R236 #FFFFFF C.J. to Tungsten R236 #FFF8438 C.S.I. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R241 #1AD8D8 Fluorescent 4300K R242 #5AE2C7 Fluorescent 4300K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R244 #E0FC90 Half Minus Green R246 #F0CD2 Minus Green R248 #FADE28 Half White Diffusion
Neutral Density Frost R225 #FFFFFF U.V. Filter R226 #FFFFFF Brushed Silk R228 #FFFFFF Quarter Tough Spun R229 #FFFFFF Super Correction WF Green R232 #A06824 HMI To Tungsten R236 #FFFFFF C.J. to Tungsten R236 #FF8438 C.S.I. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R241 #1AD8D8 Fluorescent 4300K R242 #5AE2C7 Fluorescent 4300K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R244 #E0FC90 Half Plus Green R246 #F0FCD2 Minus Green R248 #FACDE0 Quarter Minus Green R248 #FADE8 Half White Diffusion
U.V. Filter R226 #FFFFFF Brushed Silk R228 #FFFFFF Quarter Tough Spun R229 #FFFFFF Super Correction WF Green R232 #AD6824 HMI To Tungsten R236 #FFFFFF C.J.D. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R241 #1AD8D8 Fluorescent 3600K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R245 #F6PFCD2 Minus Green R246 #F0FCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FADE28 Half White Diffusion R250 #FFFFFF Eighth White Diffusion R251 #FFFFFF Hanover Frost
Quarter Tough Spun R229 #FFFFF Super Correction WF Green R232 #AD6824 HMI To Tungsten R236 #FF8438 C.I.D. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE28 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Hanover Frost R253 #FFFFFF Half Hanover Frost R254 #FFFFFF Half Hanover Frost R256 #FFFFFF Half Hano
Super Correction WF Green R232 #AD6824 HMI To Tungsten R236 #FF8438 C.I.D. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R241 #5AE2C7 Fluorescent 3600K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADEE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Hanover Frost R253 #FFFFFF Hanover Frost R254 #FFFFFF Half Hanover Frost R256 #FFFFFF Quarter Hanove
Super Correction WF Green R232 #AD6824 HMI To Tungsten R236 #FF8438 C.I.D. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R241 #5AE2C7 Fluorescent 3600K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R245 #FFFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R248 #FACDE0 Quarter Minus Green R249 #FFFFFF Quarter White Diffusion R250 #FFFFFF Hanover Frost R252 #FFFFFF Hanover Frost R253 #FFFFFF Half Hanover Frost R256 #FFFFFF Half Hanover Frost R256 #FFFFFF Half Ha
HMI To Tungsten R236 #FF8438 C.I.D. to Tungsten R237 #F08F56 C.S.I. to Tungsten R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R241 #5AE2C7 Fluorescent 3600K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R245 #EAFCB8 Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE28 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Hanover Frost R253 #FFFFFF Hanover Frost R254 #FFFFFF Half Hanover Frost R256 #FFFFFF Quarter Hanover Frost
C.S.I. to Tungsten R238 #E5B1A0 Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADEE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Hanover Frost R253 #FFFFFF Haarlem Frost R254 #FFFFFF Half Hanover Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Eighth Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
C.S.I. to Tungsten R238 #E5B1AO Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #FOFCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADEE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Hanover Frost R253 #FFFFFF Hanover Frost R254 #FFFFFF Half Hanover Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Eighth Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Polarizer R239 #FFFFFF Fluorescent 5700K R241 #1AD8D8 Fluorescent 4300K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #FOFCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADEE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF Hanover Frost R254 #FFFFFF Half Hanover Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Eighth Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Fluorescent 4300K R242 #5AE2C7 Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF Harlem Frost R254 #FFFFFF Half Hanover Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Eighth Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Fluorescent 3600K R243 #87E5B6 Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFBBD0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF Harlem Frost R254 #FFFFFF Half Hanover Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Eighth Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Plus Green R244 #E0FC90 Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFBBD0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Half Hanover Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Eighth Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Half Plus Green R245 #EAFCB8 Quarter Plus Green R246 #FOFCD2 Minus Green R247 #FFBBD0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Half Hanover Frost R256 #FFFFFF Quarter Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Quarter Plus Green R246 #F0FCD2 Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Eighth Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Quarter Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Minus Green R247 #FFB8D0 Half Minus Green R248 #FACDE0 Quarter Minus Green R249 #FADE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Quarter Hanover Frost R256 #FFFFFF Quarter Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Quarter Minus Green R249 #FADEE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Half Hanover Frost R256 #FFFFFF Quarter Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Quarter Minus Green R249 #FADEE8 Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Half Hanover Frost R256 #FFFFFF Quarter Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Half White Diffusion R250 #FFFFFF Quarter White Diffusion R251 #FFFFFF Eighth White Diffusion R252 #FFFFFF Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Half Hanover Frost R256 #FFFFFF Quarter Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
Quarter White DiffusionR251#FFFFFFEighth White DiffusionR252#FFFFFFHanover FrostR253#FFFFFFHT New Hanover FrostR254#FFFFFFHaarlem FrostR255#FFFFFFHalf Hanover FrostR256#FFFFFFQuarter Hanover FrostR257#FFFFFFEighth Hanover FrostR258#FFFFFF
Eighth White DiffusionR252#FFFFFFHanover FrostR253#FFFFFFHT New Hanover FrostR254#FFFFFFHaarlem FrostR255#FFFFFFHalf Hanover FrostR256#FFFFFFQuarter Hanover FrostR257#FFFFFFEighth Hanover FrostR258#FFFFFF
Hanover Frost R253 #FFFFFF HT New Hanover Frost R254 #FFFFFF Haarlem Frost R255 #FFFFFF Half Hanover Frost R256 #FFFFFF Quarter Hanover Frost R257 #FFFFFF Eighth Hanover Frost R258 #FFFFFF
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Quarter Hanover FrostR257#FFFFFEighth Hanover FrostR258#FFFFFF
Eighth Hanover Frost R258 #FFFFFF
Heat Shield R269 #FFFFFF
Scrim R270 #FFFFF
Mirror Silver R271 #FFFFF
Soft Gold Reflector R272 #FFFFF
Soft Silver Reflector R273 #FFFFF
Mirror Gold R274 #FFFFF
Black Scrim R275 #FFFFF
Eighth Plus Green R278 #F6FFE0
Eighth Minus Green R279 #FCE8F3
Three Quarter CT Blue R281 #9CC5FF
1.5 CT Blue R283 #759EE5
3/4 CT Orange R285 #F7AF5C
1.5 CT Orange R286 #F8963E
Double CT Orange R287 #F77F1E
.15 Neutral Density R298 #DCD9D9
1.2 Neutral Density R299 #474747
Soft Green R322 #02E59A
Jade R323 #02E2A3

Mallard Green	R325	#005C46
Forest Green	R327	#006539
Follies Pink	R328	#FF33A0
Special Rose Pink	R332	#FFOD6A
Plum	R341	#CD9BD1
Special Medium Lavender	R343	#7345FF
Violet	R344	#A98AFF
Fuschia Pink	R345	#C953DB
Glacier Blue	R352	#00A6FF
Lighter Blue	R353	#54D5FF
Special Steel Blue	R354	#00BFD8
Special Medium Blue	R363	#0236DF
Cornflower	R366	#5783CF
Rolux	R400	#FFFFFF
Light Rolux	R401	#FFFFFF
Soft Frost	R402	#FFFFFF
Half Soft Frost	R404	#FFFFFF
Opal Frost	R410	#FFFFFF
Highlight	R414	#FFFFFF
Three Quarter White	R416	#FFFFFF
Light Opal Frost	R420	#FFFFFF
Quiet Frost	R429	#FFFFFF
Grid Cloth	R430	#FFFFFF
Light Grid Cloth	R432	#FFFFFF
Quarter Grid Cloth	R434	#FFFFFF
Full CT Straw	R441	#F7BF4F
Half CT Straw	R442	#FFCE9C
Quarter CT Straw	R443	#FFE3BA
Eighth CT Straw	R444	#FFF5DC
Three Eighths White	R450	#FFFFFF
One Sixteenth White	R452	#FFFFFF
Quiet Grid Cloth	R460	#FFFFFF
Quiet Light Grid Cloth	R462	#FFFFFF
Quiet Quarter Grid Cloth	R464	#FFFFFF
Full Atlantic Frost	R480	#FFFFFF
Half Atlantic Frost	R481	#FFFFFF
Quarter Atlantic Frost	R482	#FFFFFF
Double New Colour Blue	R500	#6977FF
New Colour Blue (Robertson Blue)	R501	#BFC7FB
Half New Colour Blue	R502	#D9E3FF
Quarter New Colour Blue	R503	#F0F5FF
Waterfront Green	R504	#B3DCE3
Sally Green	R505	#BFFF59
Marlene	R506	#F7C9A3
Madge	R507	#E93511
Midnight Maya	R508	#1602AA
Argent Blue	R525	#2261D6
Gold Medal	R550	#F5AE3F
Full CT Eight Five	R604	#FFC470
Half Mustard Yellow	R642	#DFAB00
		., 21 11200

Quarter Mustard Yellow	R643	#FDC200
Industry Sodium	R650	#D9CE73
HI Sodium	R651	#FFB95C
Urban Sodium	R652	#FF752B
LO Sodium	R653	#5E2A02
Perfect Lavender	R700	#7500EB
Provence	R701	#7500EB #9A3BFF
Special Pale Lavender	R702	#DACCFF
Cold Lavender	R703	#C587FF
Lily	R704	#E2BAFF
Lily Frost	R705	#D59EFF
King Fals Lavender	R706	#6600FF
Ultimate Violet	R707	#7500F2
Cool Lavender	R708	#BFC8FF
Electric Lilac	R709	#7394FF
Spir Special Blue	R710	#554CFF
Cold Blue	R711	#224ED4
Bedford Blue	R712	#3853FF
Winter Blue	R713	#1F009A
Elysian Blue	R714	#0F17FF
Cabanna Blue	R715	#072EDE
Mikkel Blue	R716	#2600BF
Shanklin Frost	R717	#FFFFFF
1/2 Shanklin Frost	R718	#FFFFFF
Colour Wash Blue	R719	#2265F5
Daylight Frost	R720	#FFFFFF
Berry Blue	R721	#0036E8
Bray Blue	R722	#0036E8 #0024C2
Virgin Blue	R723	#0024C2 #0031F7
Ocean Blue	R724	#2BC7FF
Old Steel Blue	R725	#8CDFFF
QFD Blue	R727	#007385
Steel Green	R728	#95DEDA
Scuba Blue	R729	#907070
Liberty Green	R730	#A3F7DB
Dirty Ice	R731	#B4F0D2
Damp Squib	R733	#A8E5C7
Velvet Green	R735	#005C1D
Twickenham Green	R736	#0D5700
Jas Green	R738	#5FE300
Aurora Borealis Green	R740	#354D15
Mustard Yellow	R741	#C5A100
Bram Brown	R742	#8E5324
Dirty White	R744	#F7C757
Brown	R746	#753900
Easy White	R747	#CC8C7C
Seedy Pink	R748	#C23061
Hanover Rose	R749	#FFBCBA
Durham Frost	R750	#FFFFFF
Wheat	R763	#FFEFBA
wmeat	17,09	#rrtrbA

Sun Colour Straw	R764	#FFEC94
Sunlight Yellow	R765	#FFEC94 #FFEC6E
Oklahoma Yellow	R767	#FFDE24
	R768	#FCC200
Egg Yolk Yellow		
Burnt Yellow Cardbox Amber	R770	#FF8A0D
	R773	#FFB28F
Soft Amber	R774	#FFC49C
Soft Amber 2	R775	#FFBA8C
Nectarine	R776	#FF8345
Rust	R777	#D94F18
Millennium Gold	R778	#FF4405
Bastard Pink	R779	#F56A2F
As Golden Amber	R780	#FF3B05
Terry Red	R781	#FF0F0D
Marius Red	R787	#91001B
Blood Red	R789	#99000D
Moroccan Pink	R790	#FF919C
Moroccan Frost	R791	#FFFFFF
Vanity Fair	R793	#FF12AC
Pretty N Pink	R794	#FF82DE
Magical Magenta	R795	#FF00C8
Deep Purple	R797	#ADOOCC
Chrysalis Pink	R798	#7B0FFF
Special K.H. Lavender	R799	#120096
Damson Violet	R5084	#8800C7
French Lilac	R5085	#6D00F2
Max Blue	R5202	#B8D4FF
Ice Blue	R5211	#E8F4FF
Venetian Blue	R5264	#96C9FF
Fuji Blue	R5287	#002DE3
Aztec Gold	R5336	#F2CF88
Wisteria	R5404	#DFCFFF
Olympia Green	R5454	#009C72
Tarragon	R5455	#7DFFB1
Grotto Green	R5461	#02BF9C
Prussian Green	R5463	#00A6B5

B.2.2 Supergel

Gel Name	Manufacturer Code	Rendered Colour
Dempster Open White	S00	#FFFFFF
Light Bastard Amber	S01	#FBB39A
Bastard Amber	S02	#FFD1AC
Dark Bastard Amber	S03	#FBBA9A
Warm Peach	S303	#FF8A4A
Medium Bastard Amber	S04	#F9B09A
Pale Apricot	S304	#FABCA9
Rose Tint	S05	#FFD7D3
Rose Gold	S305	#F5BAB8

N Cl C	Lanc	"EGEADD
No Color Straw Pale Yellow	S06	#FCFADB
	S07	#FDFAD1
Pale Amber Gold	S09	#FFCB86
Medium Yellow	S10	#FFF200
Light Straw	S11	#FFD21A
Canary	S312	#FFEA00
Straw Tint	S13 S313	#FFD88F
Light Relief Yellow		#FFE462
Medium Straw	S14	#FCD419
Deep Straw	S15 S317	#FECB00
Apricot Mayor Sur		#FF7418
Mayan Sun	S318	#FF6F29
Fire	S19	#FF390B
Medium Amber	S20	#FF871C
Golden Amber	S21	#FF6613
Deep Amber	S22	#FF430A
Orange	S23	#FF5A00
Scarlet	S24	#F50014
Gypsy Red	S324	#F50F39
Orange Red	S25	#E51F00
Light Red	S26	#D70229
Medium Red	S27	#B00202
Light Salmon Pink	S30	#FF7A59
Salmon Pink	S31	#FF847F
Shell Pink	S331	#FF9D8D
Medium Salmon Pink	S32	#FF413C
Cherry Rose	S332	#FF2957
No Color Pink	S33	#FFC2D0
Light Pink	S35	#FFA7BB
Medium Pink	S36	#FF6D96
Billington Pink	S336	#FF73B7
True Pink	S337	#FFAFC2
Light Rose	S38	#FFBBE2
Broadway Pink	S339	#FF1283
Skelton Exotic Sangria	S39	#E800BC
Light Salmon	S40 S342	#FF4F1F
Rose Pink		#FF1562
Deep Pink	S43	#FF3E93
Neon Pink	S343	#FF397F
Follies Pink	S344	#FF05D3
Rose	S45	#EB016D
Magenta	S46	#BD045D
Tropical Magenta	S346	#FF2DD5
Light Rose Purple	S47	#CC4EB9
Belladonna Rose	S347	#B101DD
Rose Purple	S48	#C800CF
Purple Jazz	S348	#DA2DFF
Medium Purple	S49	#C900E6
Fisher Fuchsia	S349	#F000FF
Mauve	S50	#BB002C

Lavender Mist	S351	#EFDCFF
Light Lavender	S52	#DDBFFF
Pale Lavender	S53	#E4DCFF
Lilly Lavender	S353	#C4ADFF
Special Lavender	S54	#E6C7FF
Lilac	S55	#COAAFD
Pale Violet	S355	#A590FF
Gypsy Lavender	S56	#8C2FFF
Middle Lavender	S356	#C38DFF
Lavender	S57	#B482FF
Royal Lavender	S357	#8A2BFF
Deep Lavender	S58	#933FFD
Rose Indigo	S358	#8EOAEA
Indigo	S59	#7200FF
Medium Violet	S359	#683FFF
Mist Blue	S61	#D3EAFF
Hemsley Blue	S361	#669EFC
Booster Blue	S62	#A1CEFF
Pale Blue	S63	#A4D3FF
Aquamarine	S363	#ABE9FF
Light Steel Blue	S64	#50AEFD
Daylight Blue	S65	#00A9FF
Cool Blue	S66	#94EAFF
Jordan Blue	S366	#29C0F9
Light Sky Blue	S67	#14A9FF
Slate Blue	S367	#44A5FF
Parry Sky Blue	S68	#447DFF
Winkler Blue	S368	#448AFF
Brilliant Blue	S69	#00A3F7
Tahitian Blue	S369	#00C6FF
Nile Blue	S70	#6CE5FF
Italian Blue	S370	#01CDDF
Sea Blue	S71	#0096C7
Theatre Booster 1	S371	#A3A8FF
Azure Blue	S72	#55CCFF
Theatre Booster 2	S372	#D9DCFF
Peacock Blue	S73	#00A4B8
Theatre Booster 3	S373	#E0E9FD
Night Blue	S74	#4200FF
Sea Green	S374	#01A4A6
Twilight Blue	S75	#007AAC
Light Green Blue	S76	#005773
Iris Purple	S377	#7124FF
Trudy Blue	S78	#6F6FFF
Bright Blue	S79	#1626FF
Primary Blue Urban Blue	S80 S81	#0048FF #486FFF
Surprise Blue	S81 S82	#486FFF #4F34F8
Congo Blue	582 S382	
Medium Blue	S83	#250070 #0228EC
Medium Dide	1 200	#0220E0

Sapphire Blue	S383	#0022D1
Zephyr Blue	S84	#5767FF
Midnight Blue	S384	#0500D0
Deep Blue	S85	#0049CE
Royal Blue	S385	#4F02CF
Pea Green	S86	#89FA19
Leaf Green	S386	#7BD300
Gaslight Green	S388	#D0F54E
Moss Green	S89	#51F655
Chroma Green	S389	#29F433
Dark Yellow Green	S90	#007F06
Primary Green	S91	#005E2C
Pacific Green	S392	#009493
Blue Green	S93	#01A3A0
Emerald Green	S393	#007150
Kelly Green	S94	#00985D
Medium Blue Green	S95	#009C91
Teal Green	S395	#00726A
Lime	S96	#F3FF6B
Neutral Grey	S398	#B0B4B9
Frost	S100	#FFFFFF
Light Frost	S101	#FFFFFF
Tough Silk	S104	#FFFFFF
Matte Silk	S113	#FFFFFF
Hamburg Frost	S114	#FFFFFF
Light Hamburg Frost	S119	#FFFFFF
Red Diffusion	S120	#FFFFF
Blue Diffusion	S121	#FFFFF
Green Diffusion	S122	#FFFFF
Red Cyc Silk	S124	#FFFFF
Blue Cyc Silk	S125	#FFFFFF
Green Cyc Silk	S126	#FFFFFF
Amber Cyc Silk	S127	#FFFFFF
Quarter Hamburg Frost	S132	#FFFFFF
Subtle Hamburg Frost	S140	#FFFFFF
Light Tough Silk	S160	#FFFFFF