



► HiTECH ◄

Hi Temperature Chemical Resistant Polymer Sheets



Chopping Board

CREATING SOLUTIONS IN ENGINEERED PLASTICS

► HiTECH ◄

POLYRIB®
RISE
INNOVATE
BUILD

POLYRIB-P, range of products are based on Isotactic crystalline polymer polypropylene. It is characterised by excellent strength and chemical resistance. It is used extensively in chemical engineering and tank building

SPECIAL FEATURES

- Excellent chemical and corrosion resistance
- High strength
- Resists most acids, alkalis and
- No moisture absorption
- Vacuum formable
- Ease of fabrication
- Easily Welded
- Large temperature range from -30 to 105°C



POLYRIB-P-PPX-258 (HOMOPOLYMER)

- It offers high strength to weight ratio and is extremely strong highly resistant to chemicals, corrosion and heat.
- It maintains a good strength at elevated temperatures.
- It is easily fabricated and welded into tanks and processing equipments used in the metal plating and chemical processing industries.
- Natural **POLYRIB-P-PPX-260** meets FDA/USDA/NSF so can be used in Diary and food processing requirements.



POLYRIB-P-PPX-259 (COPOLYMER)

It offers excellent chemical resistance and impact strength with additional benefit of good resistance to stress cracking at low temperatures and can be used for temperatures -30 to 85° C.

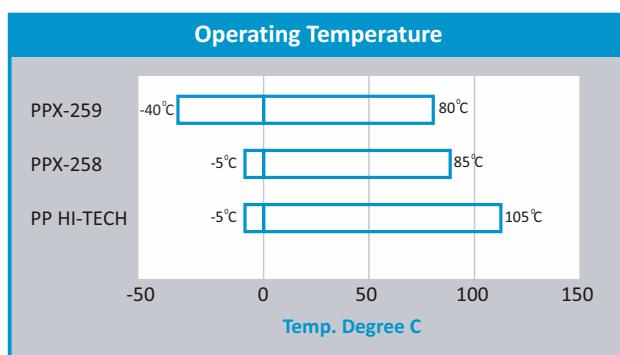
POLYRIB-HITECH

It is PPH based sheet which has a high temperature resistance and withstands chemical attack at elevated temperatures. The sheets have special additives which imparts high heat and chemical resistance.



APPLICATIONS:

Chemical Storage Tank
Electroplating Barrels
Fume Hoods & Ducting
Pump Casting & Spares for Pumps
Impellers



Operating temperatures are recorded with no aggressive chemicals in contact with Polypropylene.



POLYRIB-PGX-266 (PPGL)

These sheets are backed by glass and can be bonded with other materials like polyester/FRP to impart strength to make PP/FRP chemical storage tanks.



PP glass lined sheets

Production Programme Sheets

Width (in mm)	Length (in mm)	Thk Range (in mm)
1000	2000	0.5-40
1220	2000	0.5-40
1220	2440	0.5-40
1500	3000	0.5-40
2000	4000	1-30
2000	10000	1.5-6
1500	10000	1.5-6
915	30500	0.9-1.4
1220	30500	0.9-1.4
1525	30500	0.9-1.4
1830	15250	0.9-1.4
2135	15250	0.9-1.4
1000	2000	25-70
915	2000	50-200

Production Programme PPGL

Width (in mm)	Length (in mm)	Thk Range (in mm)
2000	10000	1.5, 2.0, 2.75, 3.0, 4.0, 4.5, 5.0, 6.0, 8.0, 10.0
1500	10000	1.5, 2.0, 2.75, 3.0, 4.0, 4.5, 5.0

Also available in sheet form

Standard Types of POLYRIB -P Sheets

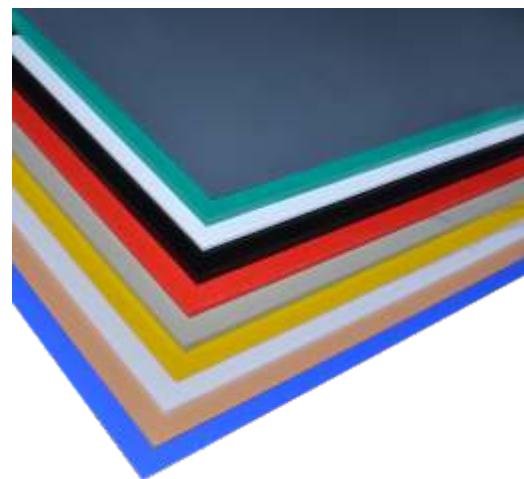
Grade Name	Description
POLYRIB PPX-258	PPHP sheets with excellent strength & chemical resistance for electroplating, Galvanising, anodising, pickling tanks
POLYRIB PPX-259	Very high impact strength sheets for chemical tanks
POLYRIB PGX266	Pp glass backed sheets for pp/frm acid/chemical storage tanks
POLYRIB PGX266	Higher thickness glass backed sheets
POLYRIB HITECH	Pph sheets for high heat, chemical resistance for electroplating tanks & vessels
POLYRIB HITECH GL	Pph glass backed sheets
POLYRIB RIPLA HIH	Cutting boards for leather
POLYRIB RIPLA HIK	Very high impact cutting boards for clicking machines
POLYRIB RIPLA HITECH	Substitute for imported cutting boards
POLYRIB-P-HIH CED	Higher thickness, sheets for machined components and parts
POLYRIB-P-HIH CED	Higher thickness, sheets for machined components and parts
POLYRIB-PPC- CED	High impact strength sheets for machined components and parts
POLYRIB-PPC- CED	Higher thickness, high impact strength sheets for machined components & parts
POLYRIB-WR	Welding rods for tank fabrication

Polyrib-H HDPE/HMHDPE

It is used in variety of applications and industries where excellent impact even at low temperature, High tensile strength, no moisture absorption, chemical and corrosion resistance properties are required

SPECIAL PROPERTIES

- Good chemical corrosion resistance
- Easily weldable, machinable and Good thermoforming
- Good abrasion resistance
- Electrical insulating properties
- High strength
- High percentage elongation at break
- Usable at temp. of -50°C to +85°C
- No water absorption



AREAS OF APPLICATION

- Orthopaedic and Prosthetic Devices
- Light duty chain guides
- Thermoforming and material handling devices
- Water and Chemical Storage Tanks
- Liner for bulk material handling
- Liner for Grain handling
- Crate partitions

GRADE	WIDTH (IN MM)	LENGTH (IN MM)	THK RANGE (IN MM)	APPLICATION
POLYRIB-H CED	1000	2000	20-50	Higher thickness,high performance tough sheets For machined components and parts
POLYRIB-H CED	915	2000	65-200	Higher thickness,high performance tough sheets For machined components and parts
POLYRIB-H -EXT	1000	2000	0.5-8	Hdpe sheets for general applications and crate Partitions
POLYRIB-H -EXT	1000	2000	10-30	Hdpe sheets for chemical tanks and other Applications
PO YRIB-HGX-266-EXT	1500	10000	3-5	Hdpe glass lined sheets for hd/frp tanks for Chemical storage
POLYRIB-H 452*	1000	2000	1-8	HDPE thermoforming sheets
POLYRIB-H 92*	1000	2000	1-20	HDPE speciality sheets
POLYRIB-ARETE L-H	1000	2000	6-30	HDPE sheets for liners for less wear
POLYRIB-ARETE L-V001	1000	2000	6-20	HDPE sheets for liners for improved wear resistance
POLYRIB-HXM-001	2000	4000	2-30	PE 100 sheets for escr applications
POLYRIB-HXM-001	1500	3000	2-30	PE 100 sheets for escr applications
POLYRIB-H	1230	2150	20-75	Pressed sheets machined components and parts
POLYRIB-H-LD	1000	2000	1-30	LD sheets for various applications
POLYRIB-ORTHO FLEX	1000	2000	3,4,5	Soft sheeets for artificial limbs
POLYRIB-H-PLAY EMB UV	1000	2000	8-25	Embossed sheet for playgrounds and amusement Parks
POLYRIB CUTRITE EMB	1000	2000	12-25	Both side embossed sheets for industrial chopping Boards
POLYRIB-WR-H	Dia 3 to 5mm	-	-	Welding rods for crate partitions and Chemical tanks

Polyrib-HXM-001 BLACK

It is a high molecular weight ,speciality grade developed with pigment and stabilisers to ensure excellent long term thermal stability and UV-resistance



SPECIAL PROPERTIES

- Excellent weldability
- High elongation at break
- Excellent ESCR properties
- Very good elongation at break
- Excellent properties for tank building

Polyrib-HXM-001 is also available in natural and blue colour also on request

WELDING ROD

For all thermoplastic sheets used in chemical tanks and plants construction.
Polyrib offers corresponding welding rods.



SPECIAL PROPERTIES

- Excellent welding properties
- Shape to suit the process, elliptical,round triangular etc
- Free of voids or pin holes

PRODUCTION PROGRAMME

Grades	Round	Elliptical	Triangle
POLYRIB-WR-HITECH	3, 4, 5		
POLYRIB-WR-PPC	3, 4, 5	3, 4, 5	3, 5
POLYRIB-WR-PPX - 258	3, 4, 5	3	
POLYRIB-WR-H	3, 5	3, 4	
POLYRIB-WR-HXM-001 BLACK	3, 4, 5		
POLYRIB-WR-HXM-001 WHITE	4, 5		

Welding rod available on spool and in coil form(no spool)

Weight of coil = 4kgs



Welding rod with spool



Welding rod without spool

AREA OF APPLICATION

- Tanks for storing liquids
- Metallic Coating Industry
- Steel Pickling plants.
- Water Treatment plant.
- Air Pollution equipment
- Tanks for storing liquids

Plastics are rapidly replacing SS, rubber lined MS ,and other competing materials in storage of chemicals in process industries. The reason is there superior resistance to thermal and chemical corrosion coupled with good weathering resistance.

Tanks made out of Thermoplastics and Composites are being widely used for storage of Acids, Alkalies and various other liquids for process requirements.

- Metallic Coating Industry

Metallic coating is a electrochemical process used to coat metal, non ferrous metals and plastics to improve their corrosion resistance. Copper plating , nickel plating , chrome plating, gold plating and Zinc plating are widely used techniques.

All these plants extensively require custom made tanks to store liquids ,plastics provide a very cost effective solution for the same

APPLICATIONS

- Tanks for Copper coating plants
- Chromium plating plants for belt clips.
- Chrome plating for ABS badges.
- Galvanising of Ms structures of transmission towers.
- Barrels/Drums for zinc coating of nuts ,bolts and screws
- Anodising of aluminium sections
- Pickling tanks for Cold roll coils
- Pickling tanks for SS pipes ,Gi pipes
- Charging Unit tanks for lead Acid Batteries.
- Gas Scrubbers.
- Air purification / Cleaning Systems.
- Exhaust Air Cleaning System.
- Water Treatment Plant.
- Waste Water treatment plants
- Electroplating plants.
- Galvanising plants.
- Anodising plants



Charging Unit Tanks for Lead Acid Batteries



Pretreatment Tank



Tanks for Waste Water Treatment

TECHNICAL DATA

Property	Unit	Polyrib P CED	Polyrib PPX-259	Polyrib PPX-260	Polyrib Hitech	Polyrib H	Polyrib H CED	Polyrib H	Polyrib HXM-001 black
Density	g/cm ³	0.91	0.9	0.9	0.91	0.945	0.95	0.95	0.96
Molecular Weight	Mol/Mol	-	-	-	-	>0.05	>0.15	>0.15	>15
Water absorption	%	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<.01
Tensile Strength	Mpa	37	26	34	32	23	25	25	24
Breaking Strength	Mpa	-	-	-	-	36	36	36	36
Elongation at Break	%	9	>50	9	9	>300	>300	>300	>400
Modulus of elasticity	Mpa	1150	950	1300	1250	800	800	800	1000
Impact Strength	kj/m ²	4	>40	4	>25	NB	NB	NB	NB
Impact Strength 15° V Notch	kj/m ²	6	40	6	9	>15	>20	>20	>20
Ball Thrust Hardness 30s	N/mm ²	67	50	65	69	40	42	42	40
Shore Hardness D 15 s	-	71	69	72	74	63	63	63	63
Vicat Softening temp VS/P/b/50	°C	88	73	90	95	67	67	67	67
Max.interrmitent Service Temp.	°C	140	125	140	145	100	100	100	100
Max. continuous Service Temp.	°C	0 to 95	-30 to 80	0 to 95	105	-50 to 80	-50 to 80	-50 to 80	-50 to 80

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