

POLYPROPYLENE (PP)

Sheets



Polypropylene is a crystalline polymer having density of 0.908/cm³ is known for its excellent chemical and corrosion resistance. It is used extensively in chemical processing, chemical storage, metal finishing, electroplating, and galvanising industry. It is also used to make engineering components such as nozzles, impellers, pumps, casing jigs & fixtures because of its Vacuum thermoforming properties.

Rods



Colors:

Black / Natural / Customised

Characteristics

- Good welding properties
- Chemical Corrosion Resistance
- Abrasion resistance & electrical properties
- Good impact strenght

POLYPROPYLENE (PP)

Performance and test conditions	Test Method	Unit	Typical Values
Mechanical properties			
Notched impact strenght of cantilever beam, 23 C°	ASTM D256	J/m	35
Yield tensile strenght, 23 C°, 50mm/min	ASTM D638	Mpa	29
Elongation at break, 23 C°, 50mm/min	ASTM D638	%	300
The bending strength, 23 C°, 2mm/min	ASTM 790	Map	35
Bending modulus, 23 C°, 2mm/min	ASTM 790	Map	1030
shore hardness D	ASTM D2240	-	80
The Density	ISO 1183	g/cm ³	0.910
Thermal Performance			
Thermal deformation temperature (HDT) (0.45Mpa)	ISO 75	C°	83
Melting point	-	C°	170
Long term operating temperature	-	C°	95
Short-term operating temperature	-	C°	120
Thermal conductivity	DIN 52612-1	W/(K-M)	-
Linear expansion coefficient	ASTM D696	10-5-1/K	15
Electrical Performance			
Dielectric strenght	ASTM D150	KV-mm	40
Dielectric loss coefficient	ASTM D150	-	-
The volume resistance	ASTM D257	Ω cm	10 ¹⁴
The surface resistance	ASTM D257	Ω	10 ¹⁶
Dielectric constant	ASTM D149	-	2.3