


PP Polypropylene

Polypropylene is a light weight material with good impact, chemical and cracking resistance. Not only does this material offer these characteristics but it has high heat resistance and low moisture intake.

PROPERTY	TEST METHOD	METRIC UNITS
GENERAL		
Density (g/cm ³)	ISO1183	0.90-1.14
Moisture Absorption (%)	-	-
Water Absorption. 24 Hours (%)	ASTM D/ ISO	0.01 (b)
Water Absorption. Saturation (%)	ASTM D/ ISO	0.03 (b)
MECHANICAL		
Tensile Strength (MPa)	ASTM D638 / ISO 527	30-41.37
E-modulus (MPa)	ASTM D638 / ISO 527	898 (a)
Elongation (%)	ASTM D638 / ISO 527	100- 800 (b)
Compressive Strength (MPa)	-	-
Compressive Modulus (MPa)	-	-
Flexural Strength (MPa)	ASTM D790	49.03 (b)
Flexural Modulus (MPa)	ISO 178	117.172 (b)
Izod Impact (Force/mass/measurement) or (KJ/M ²)	ISO 180	21-75
Shore D	ASTM D785	73 (b)
Coefficient of Friction	N/A	0.3 (b)
THERMAL		
Melting Temperature (°C)	ASTM D3418	164 (a)
Glass Transition Temperature (°C)	DIN 53 763	-18
Heat Deflection Temperature (°C)	-	-
Heat Distortion Temperature (°C)	-	-
Maximum Continuous Service Temperature (°C)	N/A	130 (s), 100(l) (b)
Coefficient of Thermal Expansion (Measurement/ °C or °F)	-	-
Thermal Conductivity (W/MK)	N/A	0.22 w/mk
Flammability (Rating)	UL 94	HB
ELECTRICAL		
Dielectric Constant (1KHz)	ASTM D/ ISO	2.25
Dielectric Strength (KV/mm)	-	-
Dissipation Factor (1KHz)	ASTM D150	80 kv/mm
Volume Resistance (Ohms/cm ³)	DIN 60093	10E14 ohms
Surface Resistance (Ohms/cm ²) ROA	DIN 60093	10E13 ohms

AVAILABILITY (mm)

ROD (OD): 10mm – 300mm 

PLATE: 1mm – 50mm THICK 

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