

GEHR Plastics PP Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Polypropylene shows a high mechanical strength and a tensile strength, but a low notched impact strength. PP resists stress cracking and it is easy to weld. At minus temperatures it can get brittle. The chemical and electrical properties are very good. The continuous operating temperatures ranges between 5°C and 100°C. Properties low weight high heat resistance high tensile strength high surface strength high chemical resistance low oxidation resistance low abrasion resistance brittle in the coldness HF-welding not possible natural color is not weather resistant Applications pumps valves gaskets supporting stand spacer for the plating particles for toys

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-PP-Polypropylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ISO 1183
Water Absorption	0.010 %	0.010 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	DIN 53505
Ball Indentation Hardness	67.0 MPa	9720 psi	ISO 2039
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Modulus of Elasticity	1.20 GPa	174 ksi	ISO 527
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	ISO 75
Vicat Softening Point	91.0 °C	196 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	5.00 °C	41.0 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	VDE 0303
Dielectric Constant	2.3 @Frequency 1.00e+6 Hz	2.3 @Frequency 1.00e+6 Hz	DIN 53483
Dielectric Loss Index	0.00020 @Frequency 1.00e+6 Hz	0.00020 @Frequency 1.00e+6 Hz	DIN 53483

Descriptive Properties	Value	Comments
Acid Resistance	yes	
Aromatic Resistance	no	
Bondability	yes	
CKW Resistance	limited	
Color	Grey	
Hydrocarbonate Resistance	yes	
Hydroxide Resistance	yes	
Ketone Resistance	yes	
Physiological indifference according	yes	
Resistance Against Hot Water	yes	
UV Stabilization	limited	

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