

Overview of materials for Polypropylene with Glass Fiber + PTFE

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with Glass Fiber + PTFE

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polypropylene with Glass Fiber + PTFE".

Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-Polypropylene-with-Glass-Fiber-PTFE.php

Physical Properties	Metric	English	Comments
Density	1.05 - 1.21 g/cc	0.0379 - 0.0437 lb/in ³	Average value: 1.13 g/cc Grade Count:5
Filler Content	10.0 - 20.0 %	10.0 - 20.0 %	Average value: 17.5 % Grade Count:4
Water Absorption	0.0100 %	0.0100 %	Average value: 0.0100 % Grade Count:5
Linear Mold Shrinkage	0.00400 - 0.00900 cm/cm	0.00400 - 0.00900 in/in	Average value: 0.00580 cm/cm Grade Count:5

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	26.2 - 44.8 MPa	3800 - 6500 psi	Average value: 41.1 MPa Grade Count:5
Elongation at Break	2.00 - 8.00 %	2.00 - 8.00 %	Average value: 4.00 % Grade Count:5
Modulus of Elasticity	2.76 - 5.52 GPa	400 - 800 ksi	Average value: 4.21 GPa Grade Count:5
Flexural Yield Strength	41.4 - 68.9 MPa	6000 - 10000 psi	Average value: 58.6 MPa Grade Count:5
Flexural Modulus	2.41 - 4.14 GPa	350 - 600 ksi	Average value: 3.35 GPa Grade Count:5
Izod Impact, Notched	0.534 - 1.07 J/cm	1.00 - 2.00 ft-lb/in	Average value: 0.641 J/cm Grade Count:5
Izod Impact, Unnotched	2.67 - 5.34 J/cm	5.00 - 10.0 ft-lb/in	Average value: 3.63 J/cm Grade Count:5

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	121 - 149 °C	250 - 300 °F	Average value: 141 °C Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	110 - 138 °C	230 - 280 °F	Average value: 131 °C Grade Count:5
Flammability, UL94	HB	HB	Grade Count:5

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	Average value: 1.00e+16 ohm-cm Grade Count:5

Processing Properties	Metric	English	Comments
Processing Temperature	193 - 227 °C	380 - 440 °F	Average value: 210 °C Grade Count:5
Mold Temperature	32.2 - 65.6 °C	90.0 - 150 °F	Average value: 48.9 °C Grade Count:5
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:5

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China