

Overview of materials for Acrylic, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Glass Fiber Reinforced

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Acrylic, Glass Fiber Reinforced". 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-Acrylic-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.26 - 1.52 g/cc	0.0455 - 0.0549 lb/in ³	Average value: 1.38 g/cc Grade Count:4
Filler Content	10.0 - 40.0 %	10.0 - 40.0 %	Average value: 25.0 % Grade Count:4
Water Absorption	0.200 - 0.300 %	0.200 - 0.300 %	Average value: 0.250 % Grade Count:4
Linear Mold Shrinkage	0.00100 - 0.00400 cm/cm	0.00100 - 0.00400 in/in	Average value: 0.00225 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.8 - 121 MPa	11000 - 17500 psi	Average value: 97.4 MPa Grade Count:4
Elongation at Break	1.00 %	1.00 %	Average value: 1.00 % Grade Count:4
Modulus of Elasticity	3.79 - 12.8 GPa	550 - 1850 ksi	Average value: 8.45 GPa Grade Count:4
Flexural Yield Strength	110 - 179 MPa	16000 - 26000 psi	Average value: 143 MPa Grade Count:4
Flexural Modulus	3.45 - 12.4 GPa	500 - 1800 ksi	Average value: 8.27 GPa Grade Count:4
Izod Impact, Notched	0.427 - 0.534 J/cm	0.800 - 1.00 ft-lb/in	Average value: 0.494 J/cm Grade Count:4
Izod Impact, Unnotched	1.60 - 2.14 J/cm	3.00 - 4.00 ft-lb/in	Average value: 1.80 J/cm Grade Count:4

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.3 - 102 °C	200 - 215 °F	Average value: 98.2 °C Grade Count:4
Deflection Temperature at 1.8 MPa (264 psi)	90.6 - 96.1 °C	195 - 205 °F	Average value: 93.3 °C Grade Count:4
Flammability, UL94	HB	HB	Grade Count:4

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 - 1.00e+17 ohm-cm	1.00e+16 - 1.00e+17 ohm-cm	Average value: 7.75e+16 ohm-cm Grade Count:4

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 210 °C	350 - 410 °F	Average value: 193 °C Grade Count:4
Mold Temperature	79.4 - 107 °C	175 - 225 °F	Average value: 93.3 °C Grade Count:4
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:4

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