

Overview of materials for Phenolic, Resole, Glass Fiber Filled

Category : Polymer , Thermoset , Phenolic , Phenolic, Resole, Glass Fiber Filled

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.70 - 1.90 g/cc	0.0614 - 0.0686 lb/in ³	Average value: 1.78 g/cc Grade Count:6
Water Absorption	0.0400 - 0.350 %	0.0400 - 0.350 %	Average value: 0.170 % Grade Count:5
Linear Mold Shrinkage	0.00150 - 0.00300 cm/cm	0.00150 - 0.00300 in/in	Average value: 0.00213 cm/cm Grade Count:6

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80.0 - 90.0	80.0 - 90.0	Average value: 85.0 Grade Count:4
Tensile Strength, Ultimate	50.0 - 125 MPa	7250 - 18100 psi	Average value: 90.5 MPa Grade Count:6
Flexural Yield Strength	140 - 240 MPa	20300 - 34800 psi	Average value: 182 MPa Grade Count:6
Flexural Modulus	13.8 - 17.0 GPa	2000 - 2470 ksi	Average value: 15.2 GPa Grade Count:6
Compressive Yield Strength	234 - 275 MPa	33900 - 39900 psi	Average value: 249 MPa Grade Count:6
Izod Impact, Notched	0.270 - 0.590 J/cm	0.506 - 1.11 ft-lb/in	Average value: 0.413 J/cm Grade Count:3
Charpy Impact, Notched	0.340 - 0.500 J/cm ²	1.62 - 2.38 ft-lb/in ²	Average value: 0.413 J/cm ² Grade Count:3

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 - 25.0 µm/m-°C	2.78 - 13.9 µin/in-°F	Average value: 15.0 µm/m-°C Grade Count:6
Thermal Conductivity	0.410 - 0.790 W/m-K	2.85 - 5.48 BTU-in/hr-ft ² -°F	Average value: 0.583 W/m-K Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	155 - 282 °C	311 - 540 °F	Average value: 258 °C Grade Count:6

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.4 - 32.0 kV/mm	290 - 813 kV/in	Average value: 16.1 kV/mm Grade Count:5
Arc Resistance	135 - 180 sec	135 - 180 sec	Average value: 164 sec Grade Count:4

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