

Overview of materials for Phenolic/Glass Fiber SMC

Category : Polymer , Thermoset , Phenolic , Phenolic/Glass Fiber SMC

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Phenolic/Glass Fiber SMC". 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-PhenolicGlass-Fiber-SMC.php

Physical Properties	Metric	English	Comments
Density	1.25 - 2.00 g/cc	0.0452 - 0.0723 lb/in ³	Average value: 1.74 g/cc Grade Count:7

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 - 290 MPa	10900 - 42000 psi	Average value: 188 MPa Grade Count:7
Flexural Yield Strength	120 - 400 MPa	17400 - 58000 psi	Average value: 257 MPa Grade Count:7
Flexural Modulus	9.00 - 22.0 GPa	1310 - 3190 ksi	Average value: 14.0 GPa Grade Count:6
Compressive Yield Strength	379 - 660 MPa	55000 - 95700 psi	Average value: 488 MPa Grade Count:3
Izod Impact, Notched	2.67 - 6.41 J/cm	5.00 - 12.0 ft-lb/in	Average value: 5.19 J/cm Grade Count:4

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:4

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+8 - 1.00e+9 ohm	1.00e+8 - 1.00e+9 ohm	Average value: 4.00e+8 ohm Grade Count:3
Dielectric Constant	5.00 - 7.30	5.00 - 7.30	Average value: 5.66 Grade Count:4
Dielectric Breakdown	>= 20000 V @Temperature 90.0 - 90.0 °C	>= 20000 V @Temperature 194 - 194 °F	Average value: 30000 V Grade Count:2
Dissipation Factor	0.0230 - 0.0300	0.0230 - 0.0300	Average value: 0.0282 Grade Count:3
Comparative Tracking Index	100 - 150 V	100 - 150 V	Average value: 117 V Grade Count:3

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