

Overview of materials for Epoxy, Encapsulating, Glass or Mineral Filled

Category : Polymer , Thermoset , Epoxy , Epoxy, Encapsulating, Glass or Mineral Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Epoxy, Encapsulating, Glass or Mineral 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-Epoxy-Encapsulating-Glass-or-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.70 - 2.00 g/cc	0.0614 - 0.0723 lb/in ³	Average value: 1.86 g/cc Grade Count:14
Apparent Bulk Density	0.740 - 0.800 g/cc	0.0267 - 0.0289 lb/in ³	Average value: 0.770 g/cc Grade Count:4
Water Absorption	0.100 - 0.250 %	0.100 - 0.250 %	Average value: 0.197 % Grade Count:6
	0.110 - 0.300 %	0.110 - 0.300 %	Average value: 0.202 % Grade Count:5
	@Temperature 50.0 - 50.0 °C	@Temperature 122 - 122 °F	
	0.110 - 0.300 %	0.110 - 0.300 %	Average value: 0.202 % Grade Count:5
	@Time 173000 - 173000 sec	@Time 48.0 - 48.0 hour	
Linear Mold Shrinkage	0.00100 - 0.00700 cm/cm	0.00100 - 0.00700 in/in	Average value: 0.00367 cm/cm Grade Count:12

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	60.0 - 70.0	60.0 - 70.0	Average value: 65.9 Grade Count:7
Tensile Strength, Ultimate	41.0 - 107 MPa	5950 - 15500 psi	Average value: 77.7 MPa Grade Count:13
Flexural Yield Strength	83.0 - 150 MPa	12000 - 21800 psi	Average value: 117 MPa Grade Count:13
Flexural Modulus	11.7 - 19.0 GPa	1700 - 2760 ksi	Average value: 14.6 GPa Grade Count:12
Compressive Yield Strength	172 - 379 MPa	25000 - 55000 psi	Average value: 234 MPa Grade Count:13
Izod Impact, Notched	0.160 - 0.370 J/cm	0.300 - 0.693 ft-lb/in	Average value: 0.282 J/cm Grade Count:12

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	English $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Comments
CTE, linear, Transverse to Flow	26.4 - 80.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	14.7 - 44.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Average value: 22.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ Grade Count:12
Thermal Conductivity	0.259 - 1.26 W/m-K	1.80 - 8.72 BTU-in/hr-ft ² -°F	Average value: 0.795 W/m-K Grade Count:7
Deflection Temperature at 1.8 MPa (264 psi)	165 - 282 °C	329 - 540 °F	Average value: 229 °C Grade Count:10
Glass Transition Temp, Tg	110 - 165 °C	230 - 329 °F	Average value: 151 °C Grade Count:5
Flammability, UL94	V-0	V-0	Grade Count:4

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	Average value: 1.00e+15 ohm-cm Grade Count:4
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	Average value: 1.00e+15 ohm Grade Count:4
Dielectric Constant	3.00 - 4.80	3.00 - 4.80	Average value: 4.03 Grade Count:13
Dielectric Strength	12.8 - 17.0 kV/mm	325 - 432 kV/in	Average value: 14.0 kV/mm Grade Count:13
Dissipation Factor	0.00400 - 0.0200	0.00400 - 0.0200	Average value: 0.0131 Grade Count:13
Arc Resistance	178 - 190 sec	178 - 190 sec	Average value: 181 sec Grade Count:12

Processing Properties	Metric	English	Comments
Processing Temperature	150 - 193 °C	302 - 379 °F	Average value: 166 °C Grade Count:5

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