

## Overview of materials for Epoxy, Molded, Mineral Filled

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Mineral Filled

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Epoxy, Molded, 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-Molded-Mineral-Filled.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Epoxy-Molded-Mineral-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.50 - 2.05 g/cc	0.0542 - 0.0741 lb/in <sup>3</sup>	Average value: 1.84 g/cc Grade Count:8
Spiral Flow	38.0 - 102 cm	15.0 - 40.2 in	Average value: 74.4 cm Grade Count:7

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74.0 - 85.0	74.0 - 85.0	Average value: 78.4 Grade Count:7
Tensile Strength, Ultimate	83.0 - 97.0 MPa	12000 - 14100 psi	Average value: 90.0 MPa Grade Count:7
Flexural Yield Strength	100 - 147 MPa	14500 - 21300 psi	Average value: 128 MPa Grade Count:8

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 - 30.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	11.7 - 16.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 22.7 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:7
CTE, linear, Transverse to Flow	69.0 - 90.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	38.3 - 50.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 75.1 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:7
Thermal Conductivity	0.600 - 1.50 W/m-K	4.16 - 10.4 BTU-in/hr-ft <sup>2</sup> -°F	Average value: 0.786 W/m-K Grade Count:7
Glass Transition Temp, Tg	155 - 165 °C	311 - 329 °F	Average value: 158 °C Grade Count:7
Flammability, UL94	V-0	V-0	Grade Count:7

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.80 - 5.20	3.80 - 5.20	Average value: 4.01 Grade Count:8
Dielectric Strength	16.0 - 20.0 kV/mm	406 - 508 kV/in	Average value: 17.4 kV/mm Grade Count:7
Dielectric Breakdown	$\geq 30000$ V	$\geq 30000$ V	Average value: 30000 V Grade

Electrical Properties	@Temperature 90.0 - 90.0 °C Metric	@Temperature 194 - 194 °F English	Count:1 Comments
	>= 30000 V @Time 20.0 - 60.0 sec	>= 30000 V @Time 0.00556 - 0.0167 hour	Average value: 30000 V Grade Count:1
Dissipation Factor	0.00100 - 0.0400	0.00100 - 0.0400	Average value: 0.00812 Grade Count:8
Arc Resistance	18.0 - 190 sec	18.0 - 190 sec	Average value: 161 sec Grade Count:7

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 193 °C	338 - 379 °F	Average value: 180 °C Grade Count:7

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