

Overview of materials for Polyphenylene Ether, PTFE Filled

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, PTFE Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polyphenylene Ether, PTFE 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-Polyphenylene-Ether-PTFE-Filled.php

Physical Properties	Metric	English	Comments
Density	1.11 - 1.43 g/cc	0.0401 - 0.0517 lb/in ³	Average value: 1.21 g/cc Grade Count:7
Water Absorption	0.0600 - 0.200 %	0.0600 - 0.200 %	Average value: 0.124 % Grade Count:5
Linear Mold Shrinkage	0.00200 - 0.0100 cm/cm	0.00200 - 0.0100 in/in	Average value: 0.00671 cm/cm Grade Count:7

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	39.6 - 115 MPa	5750 - 16700 psi	Average value: 57.3 MPa Grade Count:7
Elongation at Break	1.00 - 10.0 %	1.00 - 10.0 %	Average value: 7.30 % Grade Count:5
Modulus of Elasticity	1.93 - 13.0 GPa	280 - 1890 ksi	Average value: 4.01 GPa Grade Count:7
Flexural Yield Strength	69.0 - 170 MPa	10000 - 24700 psi	Average value: 89.8 MPa Grade Count:7
Flexural Modulus	2.07 - 11.0 GPa	300 - 1600 ksi	Average value: 3.68 GPa Grade Count:7
Izod Impact, Notched	0.590 - 1.17 J/cm	1.11 - 2.20 ft-lb/in	Average value: 0.950 J/cm Grade Count:5
Izod Impact, Unnotched	8.01 - 16.0 J/cm	15.0 - 30.0 ft-lb/in	Average value: 10.9 J/cm Grade Count:3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	116 - 121 °C	240 - 250 °F	Average value: 119 °C Grade Count:3
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:5

Processing Properties	Metric	English	Comments
Melt Temperature	249 - 316 °C	480 - 601 °F	Average value: 284 °C Grade Count:7

Processing Properties	Metric 121 °C	English 250 °F	Comments
Drying Temperature	93.3 - 121 °C	200 - 250 °F	Average value: 104 °C Grade Count:7
Moisture Content	0.100 %	0.100 %	Average value: 0.100 % Grade Count:3
Dew Point	-17.8 °C	0.000 °F	Average value: -17.8 °C Grade Count:3
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:3

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