

## Overview of materials for Polystyrene + Polyphenylene Ether, Glass + Mineral Filler

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene + Polyphenylene Ether, Glass + Mineral Filler

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polystyrene + Polyphenylene Ether, Glass + Mineral Filler". 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-Polystyrene-Polyphenylene-Ether-Glass-Mineral-Filler.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Polystyrene-Polyphenylene-Ether-Glass-Mineral-Filler.php)

Physical Properties	Metric	English	Comments
Density	1.20 - 1.43 g/cc	0.0434 - 0.0517 lb/in <sup>3</sup>	Average value: 1.28 g/cc Grade Count:10
Water Absorption	0.0600 - 0.100 %	0.0600 - 0.100 %	Average value: 0.0733 % Grade Count:3
Linear Mold Shrinkage	0.000800 - 0.00800 cm/cm	0.000800 - 0.00800 in/in	Average value: 0.00547 cm/cm Grade Count:7
Linear Mold Shrinkage, Transverse	0.000900 - 0.0100 cm/cm	0.000900 - 0.0100 in/in	Average value: 0.00647 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	50.0 - 120 MPa	7250 - 17400 psi	Average value: 90.1 MPa Grade Count:8
Tensile Strength, Yield	65.5 - 119 MPa	9500 - 17300 psi	Average value: 90.8 MPa Grade Count:9
Elongation at Break	3.40 - 40.0 %	3.40 - 40.0 %	Average value: 10.3 % Grade Count:9
Elongation at Yield	1.30 - 5.10 %	1.30 - 5.10 %	Average value: 2.79 % Grade Count:7
Flexural Yield Strength	82.0 - 141 MPa	11900 - 20500 psi	Average value: 120 MPa Grade Count:9
Flexural Modulus	2.30 - 9.74 GPa	334 - 1410 ksi	Average value: 6.64 GPa Grade Count:10
Izod Impact, Notched	0.267 - 1.33 J/cm	0.500 - 2.50 ft-lb/in	Average value: 0.634 J/cm Grade Count:8
Izod Impact, Unnotched	1.65 - 3.74 J/cm	3.09 - 7.01 ft-lb/in	Average value: 2.55 J/cm Grade Count:7
Falling Dart Impact	7.34 - 8.81 J	5.41 - 6.50 ft-lb	Average value: 8.02 J Grade Count:5

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	355 °F	Average value: 155 °C Grade Count:7
Deflection Temperature at 1.8 MPa (264 psi)	93.3 - 179 °C	200 - 354 °F	Average value: 144 °C Grade Count:10
Flammability, UL94	V-0	V-0	Grade Count:3

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1000 - 1.00e+17 ohm-cm	1000 - 1.00e+17 ohm-cm	Average value: 3.33e+16 ohm-cm Grade Count:6
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	Average value: 505000 ohm Grade Count:5

Processing Properties	Metric	English	Comments
Nozzle Temperature	277 - 335 °C	531 - 635 °F	Average value: 312 °C Grade Count:7
Melt Temperature	243 - 335 °C	469 - 635 °F	Average value: 305 °C Grade Count:7
Mold Temperature	71.1 - 132 °C	160 - 270 °F	Average value: 103 °C Grade Count:7
Drying Temperature	104 - 121 °C	219 - 250 °F	Average value: 113 °C Grade Count:7
Moisture Content	0.0200 %	0.0200 %	Average value: 0.0200 % Grade Count:7
Vent Depth	0.00380 - 0.00510 cm	0.00150 - 0.00201 in	Average value: 0.00445 cm Grade Count:5

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