

## Overview of materials for Polyphenylene Ether, Impact Grade

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Impact Grade

### Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.04 - 1.24 g/cc	0.0376 - 0.0448 lb/in <sup>3</sup>	Average value: 1.10 g/cc Grade Count:8
Water Absorption	0.0700 - 0.100 %	0.0700 - 0.100 %	Average value: 0.0850 % Grade Count:4
Linear Mold Shrinkage	0.00500 - 0.00700 cm/cm	0.00500 - 0.00700 in/in	Average value: 0.00600 cm/cm Grade Count:8

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.5 - 74.0 MPa	5000 - 10700 psi	Average value: 54.2 MPa Grade Count:7
Tensile Strength, Yield	34.5 - 46.9 MPa	5000 - 6800 psi	Average value: 42.1 MPa Grade Count:3
Elongation at Break	30.0 - 70.0 %	30.0 - 70.0 %	Average value: 50.0 % Grade Count:3
Flexural Yield Strength	48.3 - 110 MPa	7000 - 16000 psi	Average value: 84.8 MPa Grade Count:6
Flexural Modulus	1.76 - 3.40 GPa	255 - 493 ksi	Average value: 2.41 GPa Grade Count:8
Izod Impact, Notched	1.55 - 4.27 J/cm	2.90 - 8.00 ft-lb/in	Average value: 2.82 J/cm Grade Count:8
	1.86865 - 2.6695 J/cm @Temperature -40.0 - -17.8 °C	3.50075 - 5.0011 ft-lb/in @Temperature -40.0 - 0.000 °F	Average value: 2.22 J/cm Grade Count:2
Izod Impact, Notched (ISO)	14.7 - 14.7 kJ/m <sup>2</sup> @Temperature -30.0 - -30.0 °C	6.99 - 6.99 ft-lb/in <sup>2</sup> @Temperature -22.0 - -22.0 °F	Average value: 14.7 kJ/m <sup>2</sup> Grade Count:1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa			Average value: 122 °C Grade Count:5

(56 psi) Thermal Properties	98.9 - 157 °C Metric	210 - 315 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.3 - 149 °C	200 - 300 °F	Average value: 110 °C Grade Count:8

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