

Overview of materials for Polycarbonate, Glass Fiber & Bead Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass Fiber & Bead Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polycarbonate, Glass Fiber & Bead 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-Polycarbonate-Glass-Fiber-Bead-Filled.php

Physical Properties	Metric	English	Comments
Density	1.26 - 1.42 g/cc	0.0455 - 0.0515 lb/in ³	Average value: 1.31 g/cc Grade Count:7
Water Absorption	0.160 - 0.200 %	0.160 - 0.200 %	Average value: 0.187 % Grade Count:3
Linear Mold Shrinkage	0.00200 - 0.00600 cm/cm	0.00200 - 0.00600 in/in	Average value: 0.00386 cm/cm Grade Count:7
Melt Flow	9.00 - 15.0 g/10 min	9.00 - 15.0 g/10 min	Average value: 12.0 g/10 min Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	53.4 - 86.0 MPa	7750 - 12500 psi	Average value: 66.8 MPa Grade Count:5
Elongation at Break	1.00 - 3.00 %	1.00 - 3.00 %	Average value: 2.40 % Grade Count:5
Modulus of Elasticity	3.80 - 5.20 GPa	551 - 754 ksi	Average value: 4.73 GPa Grade Count:3
Flexural Yield Strength	86.2 - 132 MPa	12500 - 19100 psi	Average value: 105 MPa Grade Count:7
Flexural Modulus	2.41 - 5.40 GPa	350 - 783 ksi	Average value: 4.26 GPa Grade Count:7
Izod Impact, Notched	0.530 - 1.60 J/cm	0.993 - 3.00 ft-lb/in	Average value: 1.08 J/cm Grade Count:7

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	107 - 149 °C	225 - 300 °F	Average value: 132 °C Grade Count:6

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 316 °C	500 - 601 °F	Average value: 284 °C Grade Count:9
Mold Temperature	77.0 - 121 °C	171 - 250 °F	Average value: 104 °C Grade Count:9

Processing Properties	Metric	English	Comments
Average Value: 121 °C Grade Count:3			

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