

Overview of materials for Polycarbonate, Carbon + Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon + Glass Fiber Reinforced

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polycarbonate, Carbon + Glass Fiber Reinforced". 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-Carbon-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.30 - 1.38 g/cc	0.0470 - 0.0499 lb/in ³	Average value: 1.34 g/cc Grade Count:3
Linear Mold Shrinkage	0.00100 - 0.00200 cm/cm	0.00100 - 0.00200 in/in	Average value: 0.00150 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	125 - 143 MPa	18200 - 20700 psi	Average value: 133 MPa Grade Count:3
Elongation at Break	2.00 - 4.00 %	2.00 - 4.00 %	Average value: 3.17 % Grade Count:3
Modulus of Elasticity	8.69 - 13.0 GPa	1260 - 1890 ksi	Average value: 10.5 GPa Grade Count:3
Flexural Yield Strength	192 - 199 MPa	27900 - 28800 psi	Average value: 195 MPa Grade Count:3
Flexural Modulus	8.62 - 11.9 GPa	1250 - 1730 ksi	Average value: 9.85 GPa Grade Count:3
Izod Impact, Notched	1.20 - 1.31 J/cm	2.25 - 2.45 ft-lb/in	Average value: 1.25 J/cm Grade Count:3

Processing Properties	Metric	English	Comments
Melt Temperature	288 - 316 °C	550 - 601 °F	Average value: 303 °C Grade Count:3
Mold Temperature	82.2 - 121 °C	180 - 250 °F	Average value: 103 °C Grade Count:3
Drying Temperature	121 - 121 °C	250 - 250 °F	Average value: 121 °C Grade Count:3

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