

## Overview of materials for Polycarbonate, Foam Grade, Glass Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Foam Grade, Glass Filled

### Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.21 - 1.43 g/cc	0.0437 - 0.0517 lb/in <sup>3</sup>	Average value: 1.30 g/cc Grade Count:10
Linear Mold Shrinkage	0.00100 - 0.00700 cm/cm	0.00100 - 0.00700 in/in	Average value: 0.00443 cm/cm Grade Count:7
Melt Flow	3.00 - 25.0 g/10 min	3.00 - 25.0 g/10 min	Average value: 11.6 g/10 min Grade Count:9

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70.0	70.0	Average value: 70.0 Grade Count:3
Tensile Strength, Ultimate	45.0 - 124 MPa	6530 - 18000 psi	Average value: 73.3 MPa Grade Count:10
Tensile Strength, Yield	55.2 - 124 MPa	8000 - 18000 psi	Average value: 78.3 MPa Grade Count:7
Flexural Yield Strength	94.8 - 152 MPa	13800 - 22000 psi	Average value: 115 MPa Grade Count:7
Flexural Modulus	3.10 - 6.89 GPa	450 - 1000 ksi	Average value: 4.61 GPa Grade Count:7
Izod Impact, Notched	0.801 - 6.41 J/cm	1.50 - 12.0 ft-lb/in	Average value: 3.27 J/cm Grade Count:8
Izod Impact, Notched (ISO)	8.00 - 8.00 kJ/m <sup>2</sup> @Temperature -30.0 - -30.0 °C	3.81 - 3.81 ft-lb/in <sup>2</sup> @Temperature -22.0 - -22.0 °F	Average value: 8.00 kJ/m <sup>2</sup> Grade Count:1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 - 152 °C	280 - 305 °F	Average value: 142 °C Grade Count:7
Deflection Temperature at 1.8 MPa (264 psi)	131 - 146 °C	268 - 295 °F	Average value: 137 °C Grade Count:10
Vicat Softening Point	145 - 154 °C	293 - 310 °F	Average value: 152 °C Grade Count:4

Thermal Properties	Metric	English	Comments
Flammability, UL 94	V-2 V-0	V-2 V-0	Grade Count:3

Processing Properties	Metric	English	Comments
Processing Temperature	266 - 288 °C	510 - 550 °F	Average value: 277 °C Grade Count:3
Melt Temperature	254 - 338 °C	490 - 640 °F	Average value: 296 °C Grade Count:7
Mold Temperature	71.1 - 116 °C	160 - 240 °F	Average value: 92.5 °C Grade Count:7
Drying Temperature	118 - 127 °C	245 - 260 °F	Average value: 123 °C Grade Count:9

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