

## Overview of materials for Acrylic/Polycarbonate Alloy, Glass Fiber Filler

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic/Polycarbonate Alloy, Glass Fiber Filler , Polycarbonate (PC)

### Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.19 - 1.49 g/cc	0.0430 - 0.0538 lb/in <sup>3</sup>	Average value: 1.30 g/cc Grade Count:11
Filler Content	5.00 - 40.0 %	5.00 - 40.0 %	Average value: 18.8 % Grade Count:8
Water Absorption	0.120 - 0.230 %	0.120 - 0.230 %	Average value: 0.172 % Grade Count:6
Linear Mold Shrinkage	0.00100 - 0.00800 cm/cm	0.00100 - 0.00800 in/in	Average value: 0.00313 cm/cm Grade Count:9

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	51.7 - 124 MPa	7500 - 18000 psi	Average value: 81.9 MPa Grade Count:11
Elongation at Break	2.00 - 10.0 %	2.00 - 10.0 %	Average value: 5.37 % Grade Count:9
Modulus of Elasticity	2.21 - 11.7 GPa	320 - 1700 ksi	Average value: 6.25 GPa Grade Count:9
Flexural Yield Strength	82.7 - 186 MPa	12000 - 27000 psi	Average value: 121 MPa Grade Count:11
Flexural Modulus	2.34 - 11.0 GPa	340 - 1600 ksi	Average value: 5.09 GPa Grade Count:11
Izod Impact, Notched	0.587 - 10.7 J/cm	1.10 - 20.0 ft-lb/in	Average value: 2.31 J/cm Grade Count:11
Izod Impact, Unnotched	3.74 - 5340 J/cm	7.00 - 10000 ft-lb/in	Average value: 7.43 J/cm Grade Count:9

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.9 - 132 °C	210 - 270 °F	Average value: 118 °C Grade Count:8
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:6

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	Average value: 1.00e+16 ohm-cm Grade Count:5

Processing Properties	Metric	English	Comments
Processing Temperature	202 - 249 °C	395 - 480 °F	Average value: 225 °C Grade Count:9
Mold Temperature	32.2 - 65.6 °C	90.0 - 150 °F	Average value: 48.9 °C Grade Count:9
Injection Pressure	55.2 - 82.7 MPa	8000 - 12000 psi	Average value: 68.9 MPa Grade Count:9

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