

Overview of materials for Acrylic/Polycarbonate Alloy, Carbon Fiber Filler

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic/Polycarbonate Alloy, Carbon 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, Carbon 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-Carbon-Fiber-Filler.php

Physical Properties	Metric	English	Comments
Density	1.21 - 1.36 g/cc	0.0437 - 0.0491 lb/in ³	Average value: 1.28 g/cc Grade Count:4
Filler Content	10.0 - 40.0 %	10.0 - 40.0 %	Average value: 25.0 % Grade Count:4
Water Absorption	0.140 - 0.210 %	0.140 - 0.210 %	Average value: 0.170 % Grade Count:4
Linear Mold Shrinkage	0.000100 - 0.00200 cm/cm	0.000100 - 0.00200 in/in	Average value: 0.000875 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	93.1 - 145 MPa	13500 - 21000 psi	Average value: 122 MPa Grade Count:4
Elongation at Break	1.20 - 2.30 %	1.20 - 2.30 %	Average value: 1.73 % Grade Count:4
Modulus of Elasticity	7.65 - 24.1 GPa	1110 - 3500 ksi	Average value: 15.5 GPa Grade Count:4
Flexural Yield Strength	128 - 207 MPa	18500 - 30000 psi	Average value: 169 MPa Grade Count:4
Flexural Modulus	6.21 - 21.4 GPa	900 - 3100 ksi	Average value: 13.4 GPa Grade Count:4
Izod Impact, Notched	0.534 - 0.854 J/cm	1.00 - 1.60 ft-lb/in	Average value: 0.667 J/cm Grade Count:4
Izod Impact, Unnotched	3.20 - 3.74 J/cm	6.00 - 7.00 ft-lb/in	Average value: 3.60 J/cm Grade Count:4

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	129 - 132 °C	265 - 270 °F	Average value: 132 °C Grade Count:4
Flammability, UL94	HB	HB	Grade Count:3

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 - 100 ohm-cm	1.00 - 100 ohm-cm	Average value: 25.8 ohm-cm Grade Count:4

Processing Properties	Metric	English	Comments
Processing Temperature	202 - 249 °C	395 - 480 °F	Average value: 225 °C Grade Count:4
Mold Temperature	32.2 - 65.6 °C	90.0 - 150 °F	Average value: 48.9 °C Grade Count:4
Injection Pressure	55.2 - 82.7 MPa	8000 - 12000 psi	Average value: 68.9 MPa Grade Count:4

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