

Overview of materials for Polycarbonate/ABS Alloy, NCG Fiber Filled

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, NCG Fiber Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polycarbonate/ABS Alloy, NCG Fiber 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-PolycarbonateABS-Alloy-NCG-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.18 - 1.42 g/cc	0.0426 - 0.0513 lb/in ³	Average value: 1.32 g/cc Grade Count:27
Filler Content	5.00 - 20.0 %	5.00 - 20.0 %	Average value: 12.6 % Grade Count:21
Water Absorption	0.100 - 0.200 %	0.100 - 0.200 %	Average value: 0.106 % Grade Count:18
Additive Loading	15.0 - 40.0 %	15.0 - 40.0 %	Average value: 26.3 % Grade Count:4
Linear Mold Shrinkage	0.000500 - 0.00600 cm/cm	0.000500 - 0.00600 in/in	Average value: 0.00180 cm/cm Grade Count:27

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.1 - 152 MPa	9000 - 22000 psi	Average value: 98.7 MPa Grade Count:27
Elongation at Break	0.500 - 5.00 %	0.500 - 5.00 %	Average value: 1.77 % Grade Count:27
Modulus of Elasticity	4.48 - 14.5 GPa	650 - 2100 ksi	Average value: 8.91 GPa Grade Count:27
Flexural Yield Strength	110 - 193 MPa	16000 - 28000 psi	Average value: 142 MPa Grade Count:27
Flexural Modulus	4.14 - 13.8 GPa	600 - 2000 ksi	Average value: 8.00 GPa Grade Count:27
Izod Impact, Notched	0.374 - 1.33 J/cm	0.700 - 2.50 ft-lb/in	Average value: 0.655 J/cm Grade Count:27
Izod Impact, Unnotched	2.14 - 5.34 J/cm	4.00 - 10.0 ft-lb/in	Average value: 3.01 J/cm Grade Count:26

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.9 - 146 °C	210 - 295 °F	Average value: 108 °C Grade Count:22
Flammability, UL94	HB - 5VA	HB - 5VA	Grade Count:22

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.100 - 1000 ohm-cm	0.100 - 1000 ohm-cm	Average value: 258 ohm-cm Grade Count:27
Surface Resistance	1.00 - 1.00e+6 ohm	1.00 - 1.00e+6 ohm	Average value: 252000 ohm Grade Count:27
Static Decay	0.500 - 2.00 sec	0.500 - 2.00 sec	Average value: 1.77 sec Grade Count:26

Processing Properties	Metric	English	Comments
Processing Temperature	232 - 266 °C	450 - 510 °F	Average value: 249 °C Grade Count:21
Melt Temperature	232 - 274 °C	450 - 525 °F	Average value: 257 °C Grade Count:6
Mold Temperature	51.7 - 93.3 °C	125 - 200 °F	Average value: 73.0 °C Grade Count:27
Drying Temperature	79.0 - 93.3 °C	174 - 200 °F	Average value: 92.1 °C Grade Count:6
Moisture Content	0.0200 %	0.0200 %	Average value: 0.0200 % Grade Count:5
Dew Point	-28.9 °C	-20.0 °F	Average value: -28.9 °C Grade Count:5
Injection Pressure	6.89 - 103 MPa	1000 - 15000 psi	Average value: 85.0 MPa Grade Count:26

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