

Polymer Resources PC/ABS-G40 General Purpose PC/ABS Alloy, 40% Glass Filled

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

PC/ABS Alloy, General Purpose, 40% Glass Filled Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PCABS-G40-General-Purpose-PCABS-Alloy-40-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
Melt Flow	1.0 - 10 g/10 min @Load 5.00 kg, Temperature 250 °C	1.0 - 10 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	89.6 MPa	13000 psi	ASTM D638
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Temperature 22.8 °C	1.20 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	131 °C	267 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB @Thickness 3.17 mm	HB @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Middle Barrel Temperature	254 - 293 °C	490 - 560 °F	
Front Barrel Temperature	260 - 302 °C	500 - 575 °F	
Melt Temperature	271 - 299 °C	520 - 570 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	79.4 - 85.0 °C	175 - 185 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0015	

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