

Polymer Resources PC/ABS-GP1 General Purpose PC/ABS Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

PC/ABS Alloy, General Purpose 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-GP1-General-Purpose-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	3.0 - 14 g/10 min @Load 5.00 kg, Temperature 250 °C	3.0 - 14 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.5 MPa	8200 psi	ASTM D638
Tensile Strength, Yield	57.9 MPa	8400 psi	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	5.34 J/cm @Temperature -30.0 °C	10.0 ft-lb/in @Temperature -22.0 °F	ASTM D256
	6.41 J/cm @Temperature 22.8 °C	12.0 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	36.2 J	26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 °C	235 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB	HB	

Thermal Properties	@Thickness 3.17 mm Metric	@Thickness 0.125 in English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 288 °C	480 - 550 °F	
Middle Barrel Temperature	254 - 293 °C	490 - 560 °F	
Front Barrel Temperature	260 - 302 °C	500 - 575 °F	
Melt Temperature	274 - 302 °C	525 - 575 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	76.7 - 82.2 °C	170 - 180 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0015	

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