Polymer Resources PC/ABS-GP1-[color]-3 PC Blend, General Purpose, UV-stabilized

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Thermoplastic Polyurethane Blend , Polyurethane, TP

Material Notes:

Process: Injection MoldingNotes: 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-color-3-PC-Blend-General-Purpose-UV-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	14 - 15 g/10 min	14 - 15 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.8 MPa	7800 psi	ASTM D638
Tensile Strength, Yield	52.4 MPa	7600 psi	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	4.81 J/cm	9.00 ft-lb/in	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	HB	1/8 in
	HB	HB	1/16 in

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	

Processing Properties	Metric	English	Comments
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 - 4 hour	3 - 4 hour	

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