

Polymer Resources PC-IM1-UV Polycarbonate, Impact Modified, Low Flow, UV-stabilized

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

Polycarbonate, Impact Modified, Low Flow, UV-stabilized
 Process: Molding or Extrusion
 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-PC-IM1-UV-Polycarbonate-Impact-Modified-Low-Flow-UV-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	5.0 - 10 g/10 min @Load 1.20 kg, Temperature 300 °C	5.0 - 10 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.2 MPa	8000 psi	ASTM D638
Tensile Strength, Yield	54.5 MPa	7900 psi	ASTM D638
Flexural Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	5.34 J/cm @Temperature -40.0 °C	10.0 ft-lb/in @Temperature -40.0 °F	ASTM D256
	9.08 J/cm @Temperature 22.8 °C	17.0 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)	129 °C	265 °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	

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 293 °C	520 - 560 °F	
Middle Barrel Temperature	282 - 304 °C	540 - 580 °F	
Front Barrel Temperature	293 - 316 °C	560 - 600 °F	
Melt Temperature	282 - 316 °C	540 - 600 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	118 - 124 °C	245 - 255 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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