

Polymer Resources PC-IM3 Polycarbonate, Impact Modified, High Flow

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

Material Notes:

Polycarbonate, Impact Modified, High Flow
 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-PC-IM3-Polycarbonate-Impact-Modified-High-Flow.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	14 - 20 g/10 min @Load 1.20 kg, Temperature 300 °C	14 - 20 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	89	89	ASTM D785
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	53.1 MPa	7700 psi	ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.03 GPa	295 ksi	ASTM D790
Izod Impact, Notched	5.87 J/cm @Temperature -17.8 °C	11.0 ft-lb/in @Temperature 0.000 °F	ASTM D256
	6.94 J/cm @Temperature 22.8 °C	13.0 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)	124 °C	255 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Vicat Softening Point	141 °C	285 °F	120°C/h, 50 N; ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	254 - 277 °C	490 - 530 °F	
Middle Barrel Temperature	266 - 288 °C	510 - 550 °F	
Front Barrel Temperature	277 - 299 °C	530 - 570 °F	
Melt Temperature	274 - 302 °C	525 - 575 °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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