

Polymer Resources PC-HH-UV Polycarbonate, High Heat, UV-stabilized

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, High Heat

Material Notes:

Polycarbonate, High Heat, UV-stabilized 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-HH-UV-Polycarbonate-High-Heat-UV-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
Melt Flow	2.0 - 5.0 g/10 min @Load 1.20 kg, Temperature 300 °C	2.0 - 5.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.12 MPa	10750 psi	ASTM D638
Tensile Strength, Yield	66.2 MPa	9600 psi	ASTM D638
Flexural Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	3.74 J/cm @Temperature 22.8 °C	7.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	11.3 J	8.33 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	154 °C	310 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	ASTM D648
Flammability, UL94	V-2 @Thickness 1.59 mm	V-2 @Thickness 0.0626 in	
	V-2 @Thickness 3.17 mm	V-2 @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	299 - 338 °C	570 - 640 °F	
Middle Barrel Temperature	299 - 338 °C	570 - 640 °F	
Front Barrel Temperature	327 - 371 °C	620 - 700 °F	
Melt Temperature	316 - 343 °C	600 - 650 °F	
Mold Temperature	76.7 - 98.9 °C	170 - 210 °F	
Drying Temperature	121 - 129 °C	250 - 265 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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