

Ravago Manufacturing Americas Hylex® P1017L Polycarbonate, Unreinforced, High Flow, Mold Release

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylex-P1017L-Polycarbonate-Unreinforced-High-Flow-Mold-Release.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24-Hr Immersion; ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	17 g/10 min @Load 1.20 kg, Temperature 300 °C	17 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength	69.6 MPa	10100 psi	ASTM D638
Elongation at Yield	115 %	115 %	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	7.47 J/cm @Thickness 3.17 mm	14.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	264 °F	ASTM D648
Vicat Softening Point	154 °C	310 °F	ASTM D1525
Flammability, UL94	V-2	V-2	0.020 inches
	V-2	V-2	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	V-2	V-2	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.585	1.585	ASTM D542
Haze	0.50 - 0.80 % @Thickness 3.17 mm	0.50 - 0.80 % @Thickness 0.125 in	ASTM D1003
Transmission, Visible	89 - 91 % @Thickness 3.17 mm	89 - 91 % @Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D257
Dielectric Strength	16.1 kV/mm @Thickness 3.17 mm	410 kV/in @Thickness 0.125 in	in Air; ASTM D149
Arc Resistance	120 sec	120 sec	ASTM D495

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