

Ravago Manufacturing Americas Hylex® P1307L Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Entec's proprietary products include a full range of compounds in the Nylon 6/6, Nylon 6, ABS, PBT, Polycarbonate, PC/ABS, PC/ASA, PC/PBT, and PPO/PPE resin families. Information provided by Entec.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylex-P1307L-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 1.20 kg, Temperature 300 °C	7.0 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 at Break	69.6 MPa	10100 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	9.08 J/cm	17.0 ft-lb/in	73°F, 0.125 in; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	285 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	Unannealed; ASTM D648
Vicat Softening Point	154 °C	310 °F	ASTM D1525
Flammability, UL94	HB	HB	0.0590 in, NA

Optical Properties	Metric	English	Comments
Refractive Index	1.585	1.585	ASTM D542

Optical Properties	Metric	English	Comments
Transmission, Visible	89 - 91 %	89 - 91 %	125 mil; ASTM D1003

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	282 - 304 °C	540 - 580 °F	
Middle Barrel Temperature	288 - 310 °C	550 - 590 °F	
Front Barrel Temperature	310 - 332 °C	590 - 630 °F	
Nozzle Temperature	299 - 327 °C	570 - 620 °F	
Melt Temperature	310 - 338 °C	590 - 640 °F	
Mold Temperature	82.2 - 110 °C	180 - 230 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	3 - 12 hour	3 - 12 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Injection Pressure	10.3 - 13.8 MPa	1500 - 2000 psi	
Back Pressure	0.483 - 1.03 MPa	70.0 - 150 psi	
Shot Size	40 - 60 %	40 - 60 %	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

Descriptive Properties	Value	Comments
Holding Pressure	1000 to 1400 psi	

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