

Ravago Manufacturing Americas Hylex® P1010FRMA Polycarbonate

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

Material Notes:

Polycarbonate, General Purpose, Flame Retardant Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylex-P1010FRMA-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Water Absorption	0.14 % @Time 7200 sec	0.14 % @Time 2.00 hour	Immersed; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm @Thickness 3.17 mm	0.0050 - 0.0070 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Tensile Strength at Break	66.0 MPa	9570 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	290 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648
Vicat Softening Point	152 °C	305 °F	ASTM D1525
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 - 5VA	V-0 - 5VA	

Thermal Properties	Metric	English	Comments
	@ Thickness 3.00 mm	@ Thickness 0.118 in	

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