

## Ravago Manufacturing Americas Hylex® P1032L Polycarbonate, Unreinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### 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-P1032L-Polycarbonate-Unreinforced.php](http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylex-P1032L-Polycarbonate-Unreinforced.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	32 g/10 min @Load 1.20 kg, Temperature 300 °C	32 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, Yield	66.9 MPa	9700 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256
	0.988 J/cm @Thickness 3.17 mm, Temperature -30.0 °C	1.85 ft-lb/in @Thickness 0.125 in, Temperature -22.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	ASTM D648
Vicat Softening Point	152 °C	305 °F	ASTM D1525

Flammability, UL 94 Thermal Properties	V-2 Metric	V-2 English	0.059 inches Comments
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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	16.0 kV/mm @Thickness 3.17 mm	406 kV/in @Thickness 0.125 in	in Air; ASTM D149
Arc Resistance	120 sec	120 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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