

Samsung Cheil Industries Infino[®] SC-1220R PC, Unreinforced

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

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-SC-1220R-PC-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.20 % @Temperature 23.0 Â°C	0.20 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	22 g/10 min @Load 1.20 kg, Temperature 300 Â°C	22 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	62.8 MPa	9100 psi	50 mm/min; ASTM D638
Elongation at Break	90 %	90 %	50 mm/min; ASTM D638
Flexural Strength	92.2 MPa	13400 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	5.88 J/cm @Thickness 3.17 mm	11.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	125 Â°C @Thickness 6.40 mm	257 Â°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	144 Â°C	291 Â°F	B/50; ISO R306
Flammability, UL94	V-2 @Thickness 0.800 - 3.20 mm	V-2 @Thickness 0.0315 - 0.126 in	

Optical Properties	Metric	English	Comments
Haze	<= 0.80 % @Thickness 3.20 mm	<= 0.80 % @Thickness 0.126 in	ASTM D1003
Transmission, Visible	89 % @Thickness 3.20 mm	89 % @Thickness 0.126 in	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.9 @Frequency 1.00e+6 Hz	2.9 @Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	0.0090 @Frequency 1.00e+6 Hz	0.0090 @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	110 sec	110 sec	Tungsten; ASTM D495

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