

Samsung Cheil Industries Infino® TP-1002 PC, Unreinforced FR

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-TP-1002-PC-Unreinforced-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Â°C	@Load 22.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	68.6 MPa	9950 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	58.8 MPa	8530 psi	50 mm/min; ASTM D638
Elongation at Break	114 %	114 %	50 mm/min; ASTM D638
Tensile Modulus	1.96 GPa	284 ksi	50 mm/min; ASTM D638
Flexural Strength	88.3 MPa	12800 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.951 J/cm	1.78 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	6.37 J/cm	11.9 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	142 Â°C	288 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C	266 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties Vicat Softening Point	Metric 148 Â°C	English 298 Â°F	Comments B/120; ISO R306
	148 Â°C	298 Â°F	B/120; ISO R306
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

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