

Samsung Cheil Industries Infino[®] HN-3104 PC, 10% Glass Filled FR

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-HN-3104-PC-10-Glass-Filled-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 Å°C	@Load 11.0 lb, Temperature 500 Å°F	
	12.5 g/10 min	12.5 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Å°C	@Load 22.0 lb, Temperature 482 Å°F	
Ash	10.5 %	10.5 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	53.9 MPa	7820 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	53.9 MPa	7820 psi	5 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	5 mm/min; ASTM D638
Tensile Modulus	3.43 GPa	498 ksi	5 mm/min; ASTM D638
Flexural Strength	83.4 MPa	12100 psi	2.8 mm/min; ASTM D790
Flexural Modulus	3.53 GPa	512 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.785 J/cm	1.47 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	139 Å°C @Thickness 6.40 mm	282 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	140 Å°C @Thickness 6.40 mm	284 Å°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 - 3.00 mm	V-0 @Thickness 0.0591 - 0.118 in	
Glow Wire Test	960 Å°C @Thickness 1.50 mm	1760 Å°F @Thickness 0.0591 in	IEC 60695-2-12

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