

Samsung Cheil Industries Infino[®] NE-1050 PC/ABS, Unreinforced FR

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-NE-1050-PCABS-Unreinforced-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
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	38 g/10 min @Load 10.0 kg, Temperature 220 Å°C	38 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	49.0 MPa	7110 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	59.8 MPa	8680 psi	50 mm/min; ASTM D638
Elongation at Break	35 %	35 %	50 mm/min; ASTM D638
Tensile Modulus	2.26 GPa	327 ksi	50 mm/min; ASTM D638
Flexural Strength	83.4 MPa	12100 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	2.75 J/cm @Thickness 6.35 mm	5.14 ft-lb/in @Thickness 0.250 in	ASTM D256
	6.18 J/cm @Thickness 3.17 mm	11.6 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Å°C @Thickness 6.40 mm	205 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Å°C @Thickness 6.40 mm	192 Å°F @Thickness 0.252 in	ASTM D648

Thermal Properties Heat Softening Point	Metric 107°C	English 219°F	Comments B/120; ISO R306
	104 °C	219 °F	B/120; ISO R306
Flammability, UL94	V-0 @Thickness 1.50 - 2.00 mm	V-0 @Thickness 0.0591 - 0.0787 in	

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