

Samsung Cheil Industries Infino® HI-1001BN PC/ABS, Unreinforced

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

Material Notes:

PC/ABS that is used for the housing of mobile phone, wheel cap, rice cooker, electric iron etc., refrigerator door handle, panel etc. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-HI-1001BN-PCABS-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 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	35 g/10 min @Load 10.0 kg, Temperature 250 Â°C	35 g/10 min @Load 22.0 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	446 MPa	64700 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	56.9 MPa	8250 psi	50 mm/min; ASTM D638
Elongation at Break	45 %	45 %	50 mm/min; ASTM D638
Tensile Modulus	2.06 GPa	299 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	3.82 J/cm @Thickness 6.35 mm	7.16 ft-lb/in @Thickness 0.250 in	ASTM D256
	4.90 J/cm @Thickness 3.17 mm	9.18 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 Â°C @Thickness 6.40 mm	235 Â°F @Thickness 0.252 in	ASTM D648
	100 Â°C	212 Â°F	

Thermal Properties Deflection Temperature at 1.8 MPa (180 psi)	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	ASTM D648 Comments
Vicat Softening Point	114 Â°C	237 Â°F	B/50; ISO R306
	115 Â°C	239 Â°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 6.00 mm	HB @Thickness 0.0591 - 0.236 in	

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