

Samsung Cheil Industries Infino® HP-1000P PC/ABS, Unreinforced

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

Material Notes:

High flow material that can be used in the exterior material of mobile phone, wheel cap, rice cooker, electric iron etc. as well as refrigerator door handle and panel. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-HP-1000P-PCABS-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 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	22 g/10 min @Load 10.0 kg, Temperature 250 Â°C	22 g/10 min @Load 22.0 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength at Break	63.7 MPa	9240 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	56.9 MPa	8250 psi	50 mm/min; ASTM D638
Elongation at Break	106 %	106 %	50 mm/min; ASTM D638
Tensile Modulus	1.96 GPa	284 ksi	50 mm/min; ASTM D638
Flexural Strength	74.5 MPa	10800 psi	2.8 mm/min; ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	5.20 J/cm @Thickness 6.35 mm	9.74 ft-lb/in @Thickness 0.250 in	ASTM D256
	6.08 J/cm @Thickness 3.17 mm	11.4 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	136 Â°C @Thickness 6.40 mm	277 Â°F @Thickness 0.252 in	ASTM D648
	124 Â°C	255 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	138 Â°C	280 Â°F	B/50; ISO R306
	140 Â°C	284 Â°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 3.00 mm	HB @Thickness 0.0591 - 0.118 in	

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