

Samsung Cheil Industries Infino[®] WP-1098 PC/ABS, Unreinforced

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-WP-1098-PCABS-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.20 mm	0.0050 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 3.20 mm	0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	30 g/10 min @Load 10.0 kg, Temperature 250 Å°C	30 g/10 min @Load 22.0 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength at Break	48.8 MPa	7080 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	49.0 MPa	7110 psi	50 mm/min; ASTM D638
Elongation at Break	100 %	100 %	50 mm/min; ASTM D638
Tensile Modulus	1.67 GPa	242 ksi	50 mm/min; ASTM D638
Flexural Strength	70.6 MPa	10200 psi	2.8 mm/min; ASTM D638
Flexural Modulus	2.01 GPa	292 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	1.47 J/cm @Thickness 6.35 mm, Temperature -30.0 Å°C	2.76 ft-lb/in @Thickness 0.250 in, Temperature -22.0 Å°F	ASTM D256
	1.57 J/cm @Thickness 3.17 mm, Temperature -30.0 Å°C	2.94 ft-lb/in @Thickness 0.125 in, Temperature -22.0 Å°F	ASTM D256
	3.43 J/cm @Thickness 6.35 mm, Temperature 23.0 Å°C	6.43 ft-lb/in @Thickness 0.250 in, Temperature 73.4 Å°F	ASTM D256

Mechanical Properties	Metric/cm	English/lb/in	Comments
	@Thickness 3.17 mm, Temperature 23.0 Å°C	@Thickness 0.125 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 Å°C @Thickness 6.40 mm	239 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	106 Å°C @Thickness 6.40 mm	223 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	120 Å°C	248 Å°F	B/50; ISO R306

Optical Properties	Metric	English	Comments
Gloss	35 % @Temperature 23.0 Å°C	35 % @Temperature 73.4 Å°F	50% RH, 60Å°; ASTM D2457

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