

Samsung Cheil Industries Infino® CF- 1030 PC, Unreinforced High Impact

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-CF-1030-PC-Unreinforced-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Melt Flow	24 g/10 min	24 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 °C	@Load 22.0 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	60.8 MPa	8820 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	60.8 MPa	8820 psi	50 mm/min; ASTM D638
Elongation at Break	82 %	82 %	50 mm/min; ASTM D638
Tensile Modulus	1.96 GPa	284 ksi	50 mm/min; ASTM D638
Flexural Strength	82.4 MPa	12000 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	2.55 J/cm	4.78 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	7.16 J/cm	13.4 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	128 °C	262 °F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	143 °C	289 °F	B/50; ISO R306
			B/120; ISO R306

Thermal Properties	145 °C Metric	293 °F English	Comments
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