

Samsung Cheil Industries Infino® UF-1013 PC, Unreinforced FR

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-UF-1013-PC-Unreinforced-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Melt Flow	18 g/10 min	18 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	56.9 MPa	8250 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	63.7 MPa	9250 psi	50 mm/min; ASTM D638
Elongation at Break	83 %	83 %	50 mm/min; ASTM D638
Tensile Modulus	2.16 GPa	313 ksi	50 mm/min; ASTM D638
Flexural Strength	89.2 MPa	12900 psi	2.8 mm/min; ASTM D638
Flexural Modulus	2.26 GPa	327 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	6.18 J/cm	11.6 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	7.85 J/cm	14.7 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)	103 Â°C	217 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	108 Â°C	226 Â°F	B/50; ISO R306
			B/120; ISO R306

Thermal Properties	108 Å°C Metric	226 Å°F English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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