

Samsung Cheil Industries Infino[®] TP-1020 PC, Unreinforced Transparent

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-TP-1020-PC-Unreinforced-Transparent.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Melt Flow	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Å°C	@Load 22.0 lb, Temperature 482 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength at Break	68.6 MPa	9950 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	58.8 MPa	8530 psi	50 mm/min; ASTM D638
Elongation at Break	112 %	112 %	50 mm/min; ASTM D638
Tensile Modulus	1.96 GPa	284 ksi	50 mm/min; ASTM D638
Flexural Strength	85.3 MPa	12400 psi	2.8 mm/min; ASTM D790
Flexural Modulus	1.91 GPa	277 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	6.37 J/cm	11.9 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)	143 Å°C	289 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	129 Å°C	264 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	145 Å°C	293 Å°F	B/50; ISO R306
			B/120; ISO R306

Thermal Properties	151 Å°C Metric	304 Å°F English	Comments
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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