

Samsung Cheil Industries Infino® XP-2140C PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-XP-2140C-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D792
Water Absorption	0.020 %	0.020 %	ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	0.0025 - 0.010 cm/cm	0.0025 - 0.010 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	177 MPa	25600 psi	5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ASTM D638
Flexural Strength	265 MPa	38400 psi	2.8 mm/min; ASTM D638
Flexural Modulus	12.7 GPa	1850 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flammability, UL94	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	50% RH; ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.0	4.0	

Dielectric Constant Electrical Properties	Metric @Frequency 1.00e+6 Hz	English @Frequency 1.00e+6 Hz	ASTM D150 Comments
Dissipation Factor	0.0020 @Frequency 1.00e+6 Hz	0.0020 @Frequency 1.00e+6 Hz	ASTM D150

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