

Samsung Cheil Industries Infino® XP-2165MC 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-2165MC-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.96 g/cc	1.96 g/cc	ASTM D792
Water Absorption	0.020 % @Temperature 23.0 Â°C	0.020 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 - 0.0080 cm/cm @Thickness 3.20 mm	0.0025 - 0.0080 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	147 MPa	21300 psi	5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ASTM D638
Flexural Strength	196 MPa	28400 psi	2.8 mm/min; ASTM D638
Flexural Modulus	17.7 GPa	2560 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	0.588 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	270 Â°C @Thickness 6.40 mm	518 Â°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	5VB @Thickness 1.60 mm	5VB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+16 ohm-cm Metric	1.00e+16 ohm-cm English	Comments
Volume Resistivity	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	50% RH, ASTM D257
Dielectric Constant	5.0 @Frequency 1.00e+6 Hz	5.0 @Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	0.0070 @Frequency 1.00e+6 Hz	0.0070 @Frequency 1.00e+6 Hz	ASTM D150

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