

Samsung Cheil Industries Starex[®] MP-0670 ABS, Metal Plating Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Plating Grade

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-MP-0670-ABS-Metal-Plating-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.30 % @Temperature 23.0 Â°C	0.30 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Thickness 3.20 mm	0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	2.3 g/10 min @Load 5.00 kg, Temperature 200 Â°C	2.3 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength at Break	35.3 MPa	5120 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	44.1 MPa	6400 psi	5 mm/min; ASTM D638
Elongation at Break	25 %	25 %	5 mm/min; ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	5 mm/min; ASTM D638
Flexural Strength	64.7 MPa	9380 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.11 GPa	306 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.785 J/cm @Thickness 6.35 mm, Temperature -30.0 Â°C	1.47 ft-lb/in @Thickness 0.250 in, Temperature -22.0 Â°F	ASTM D256
	0.883 J/cm @Thickness 3.17 mm, Temperature -30.0 Â°C	1.65 ft-lb/in @Thickness 0.125 in, Temperature -22.0 Â°F	ASTM D256

Mechanical Properties	Metric/cm	English/lb/in	Comments
	@Thickness 6.35 mm, Temperature 23.0 Å°C	@Thickness 0.250 in, Temperature 73.4 Å°F	ASTM D256
	2.84 J/cm	5.33 ft-lb/in	
	@Thickness 3.17 mm, Temperature 23.0 Å°C	@Thickness 0.125 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Å°C	190 Å°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	ASTM D648
Vicat Softening Point	100 Å°C	212 Å°F	B/50; ISO R306

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