

Samsung Cheil Industries Starex[®] BF-0679P MABS, Unreinforced Scratch Resistant

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Scratch resistant material that is used for the exterior material of flat TV. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-BF-0679P-MABS-Unreinforced-Scratch-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.20 mm	0.0040 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 cm/cm @Thickness 3.20 mm	0.0050 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	13 g/10 min @Load 10.0 kg, Temperature 220 °C	13 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength at Break	40.2 MPa	5830 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	49.0 MPa	7110 psi	5 mm/min; ASTM D638
Elongation at Break	18 %	18 %	5 mm/min; ASTM D638
Tensile Modulus	2.45 GPa	356 ksi	5 mm/min; ASTM D638
Flexural Strength	71.6 MPa	10400 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.36 GPa	343 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.785 J/cm @Thickness 6.35 mm	1.47 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.922 J/cm @Thickness 3.17 mm	1.73 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
	94.0 °C	201 °F	

Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	ASTM D648 Comments
Deflection Temperature at 0.46 MPa (67 psi)	85.0 Å°C	185 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	ASTM D648
Vicat Softening Point	97.0 Å°C	207 Å°F	B/50; ISO R306
	100 Å°C	212 Å°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 3.00 mm	HB @Thickness 0.0591 - 0.118 in	

Descriptive Properties	Value	Comments
Pencil Hardness	2H	500g, JIS K 5401

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