

Samsung Cheil Industries Starex[®] SF-0505H MABS, Unreinforced Scratch Resistant

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-SF-0505H-MABS-Unreinforced-Scratch-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	39.2 MPa	5690 psi	ASTM D638
Tensile Strength, Yield	53.9 MPa	7820 psi	ASTM D638
Elongation at Break	11 %	11 %	ASTM D638
Tensile Modulus	2.35 GPa	341 ksi	ASTM D638
Flexural Strength	75.5 MPa	11000 psi	ASTM D790
Flexural Modulus	2.35 GPa	341 ksi	ASTM D790
Izod Impact, Notched	0.981 J/cm @Thickness 6.35 mm	1.84 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.08 J/cm @Thickness 3.17 mm	2.02 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 Å°C @Thickness 6.40 mm	198 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Å°C @Thickness 6.40 mm	183 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	93.0 Å°C	199 Å°F	B/50; ISO R306

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB @Thickness 1.50 - 3.00 mm	HB @Thickness 0.0591 - 0.118 in	R306

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

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