

Samsung Cheil Industries Starex[®] SF-0505HWR 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-0505HWR-MABS-Unreinforced-Scratch-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Thickness 3.20 mm	0.0030 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	19 g/10 min @Load 10.0 kg, Temperature 220 Å°C	19 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength at Break	32.4 MPa	4700 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	43.1 MPa	6260 psi	5 mm/min; ASTM D638
Elongation at Break	21 %	21 %	5 mm/min; ASTM D638
Tensile Modulus	2.06 GPa	299 ksi	5 mm/min; ASTM D638
Flexural Strength	63.7 MPa	9240 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.06 GPa	299 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 6.35 mm	2.20 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.37 J/cm @Thickness 3.17 mm	2.57 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.0 Å°C @Thickness 6.40 mm	189 Å°F @Thickness 0.252 in	ASTM D648
	83.0 Å°C	181 Å°F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (100 psi)</small>	Metric <small>@ Thickness 6.40 mm</small>	English <small>@ Thickness 0.252 in</small>	ASTM D648 Comments
Vicat Softening Point	90.0 Å°C	194 Å°F	B/50; ISO R306
	92.0 Å°C	198 Å°F	B/120; ISO R306
Flammability, UL94	HB <small>@Thickness 1.50 - 3.00 mm</small>	HB <small>@Thickness 0.0591 - 0.118 in</small>	

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

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