

Samsung Cheil Industries Starex^Â® TF-0930 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-TF-0930-MABS-Unreinforced-Scratch-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 3.20 mm	0.0030 - 0.0040 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	25 g/10 min @Load 10.0 kg, Temperature 220 Â°C	25 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	52.0 MPa	7540 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	60.8 MPa	8820 psi	5 mm/min; ASTM D638
Elongation at Break	12 %	12 %	5 mm/min; ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	5 mm/min; ASTM D638
Flexural Strength	93.2 MPa	13500 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.84 GPa	412 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.196 J/cm @Thickness 6.35 mm, Temperature 23.0 Â°C	0.367 ft-lb/in @Thickness 0.250 in, Temperature 73.4 Â°F	ASTM D256
	0.196 J/cm @Thickness 3.17 mm, Temperature 23.0 Â°C	0.367 ft-lb/in @Thickness 0.125 in, Temperature 73.4 Â°F	ASTM D256
	2.94 J/cm	5.51 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 6.35 mm, Temperature -30.0 Å°C	English @Thickness 0.250 in, Temperature -22.0 Å°F	Comments
	2.94 J/cm	5.51 ft-lb/in	
	@Thickness 3.17 mm, Temperature -30.0 Å°C	@Thickness 0.125 in, Temperature -22.0 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Å°C	183 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	94.0 Å°C	201 Å°F	B/50; ISO R306
Flammability, UL94	HB	HB	
	@Thickness 1.50 - 3.00 mm	@Thickness 0.0591 - 0.118 in	

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

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