

Samsung Cheil Industries Starex[®] SR-0330M ABS, Unreinforced Heat Resistant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-SR-0330M-ABS-Unreinforced-Heat-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.20 mm	0.0060 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0064 cm/cm @Thickness 3.20 mm	0.0064 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 250 Å°C	2.0 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238
	2.9 g/10 min @Load 10.0 kg, Temperature 220 Å°C	2.9 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength at Break	40.2 MPa	5830 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	41.2 MPa	5970 psi	5 mm/min; ASTM D638
Elongation at Break	17 %	17 %	5 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	5 mm/min; ASTM D638
Flexural Strength	62.8 MPa	9110 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.588 J/cm @Thickness 3.17 mm, Temperature -30.0 Å°C	1.10 ft-lb/in @Thickness 0.125 in, Temperature -22.0 Å°F	ASTM D256
	0.686 J/cm	1.29 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
	1.18 J/cm	2.20 ft-lb/in	ASTM D256
	@Thickness 6.35 mm, Temperature 23.0 Å°C	@Thickness 0.250 in, Temperature 73.4 Å°F	
	1.27 J/cm	2.39 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 Å°C	@Thickness 0.125 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	116 Å°C @Thickness 6.40 mm	241 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	104 Å°C @Thickness 6.40 mm	219 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	118 Å°C	244 Å°F	B/50; ISO R306
	119 Å°C	246 Å°F	B/120; ISO R306

Optical Properties	Metric	English	Comments
Yellow Index	31.2 % @Thickness 31.2 mm	31.2 % @Thickness 1.23 in	ASTM D1925

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