

Samsung Cheil Industries Starex® BC-0130 X ABS, Unreinforced General Purpose

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

Material Notes:

Stiff ABS material that is used for battery cases Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-BC-0130-X-ABS-Unreinforced-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 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	2.6 g/10 min @Load 5.00 kg, Temperature 200 Â°C	2.6 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength at Break	37.3 MPa	5410 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	48.1 MPa	6970 psi	5 mm/min; ASTM D638
Elongation at Break	14 %	14 %	5 mm/min; ASTM D638
Tensile Modulus	2.35 GPa	341 ksi	5 mm/min; ASTM D638
Flexural Strength	70.6 MPa	10200 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.981 J/cm @Thickness 6.35 mm	1.84 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.18 J/cm @Thickness 3.17 mm	2.20 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Â°C @Thickness 6.40 mm	205 Â°F @Thickness 0.252 in	ASTM D648
	86.0 Â°C	187 Â°F	

Thermal Properties Deflection Temperature at 1.8 MPa (180 psi)	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	ASTM D648 Comments
Vicat Softening Point	99.0 Â°C	210 Â°F	B/50; ISO R306
	102 Â°C	216 Â°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 3.00 mm	HB @Thickness 0.0591 - 0.118 in	

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