

Samsung Cheil Industries Starex[®] SD-0160 Super High Impact Grade ABS

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

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-SD-0160-Super-High-Impact-Grade-ABS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	13 g/10 min @Load 10.0 kg, Temperature 220 °C	13 g/10 min @Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ASTM D785
Tensile Strength, Yield	39.3 MPa @Thickness 3.17 mm	5700 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	87 % @Thickness 3.17 mm	87 % @Thickness 0.125 in	ASTM D638
Flexural Strength	60.0 MPa @Thickness 3.17 mm	8700 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	1.93 GPa @Thickness 3.17 mm	280 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	4.32 J/cm @Thickness 3.17 mm	8.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C @Thickness 6.35 mm	180 °F @Thickness 0.250 in	Unannealed; ASTM D648
Vicat Softening Point	96.0 °C	205 °F	Unannealed; ISO R 306
Flammability, UL94	HB	HB	

Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	Comments
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Optical Properties	Metric	English	Comments
Gloss	96 %	96 %	ASTM D523

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	
Middle Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Front Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	
Melt Temperature	220 - 240 Â°C	428 - 464 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	80.0 - 85.0 Â°C	176 - 185 Â°F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	68.6 - 108 MPa	9950 - 15600 psi	
Back Pressure	0.689 - 1.38 MPa	100 - 200 psi	
Screw Speed	60 - 80 rpm	60 - 80 rpm	

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