

Samsung Cheil Industries Starex® SR-0340M High Heat Grade ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, 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-SR-0340M-High-Heat-Grade-ABS.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	3.0 g/10 min	3.0 g/10 min	
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	42.7 MPa	6200 psi	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Elongation at Break	17 %	17 %	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Strength	62.7 MPa	9100 psi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	1.49 J/cm	2.80 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Vicat Softening Point	120 °C	248 °F	Unannealed; ISO R 306

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	
Front Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 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	

Descriptive Properties	Value	Comments
UV Resistance	<1 Delta E	300 Hr. Ivory Color; ASTM D4459

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