

## Samsung Cheil Industries Starex<sup>®</sup> SD-0150GP High Impact Grade ABS

Category : Polymer , Thermoplastic , ABS Polymer

### 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-0150GP-High-Impact-Grade-ABS.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-SD-0150GP-High-Impact-Grade-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	2.3 g/10 min	2.3 g/10 min	
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength at Break	40.7 MPa	5900 psi	5 mm/min; ASTM D638
Elongation at Break	40 %	40 %	5 mm/min; ASTM D638
Flexural Strength	58.6 MPa	8500 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.05 GPa	298 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	4.11 J/cm	7.70 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)	85.0 °C	185 °F	ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Vicat Softening Point	97.0 °C	207 °F	5 kg; 50°C/hr; ISO R 306
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 °C	374 - 410 °F	
Middle Barrel Temperature	200 - 220 °C	392 - 428 °F	

Processing Properties	Metric	English	Comments
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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