

## Samsung Cheil Industries Starex<sup>®</sup> MP-0160RD Metal Plating Grade ABS

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

### 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-MP-0160RD-Metal-Plating-Grade-ABS.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-MP-0160RD-Metal-Plating-Grade-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	2.4 g/10 min @Load 5.00 kg, Temperature 200 °C	2.4 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	44.1 MPa @Thickness 3.17 mm	6400 psi @Thickness 0.125 in	ASTM D638
Flexural Strength	64.8 MPa @Thickness 3.17 mm	9400 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.34 GPa @Thickness 3.17 mm	340 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	2.56 J/cm @Thickness 3.17 mm	4.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.1 °C @Thickness 6.35 mm	187 °F @Thickness 0.250 in	Unannealed; ASTM D648
Vicat Softening Point	98.0 °C	208 °F	Unannealed; ISO R 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	Comments
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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	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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