

Samsung Cheil Industries Starex[®] WR-9140 General Purpose 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-WR-9140-General-Purpose-ABS.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792
Melt Flow	7.0 g/10 min @Load 10.0 kg, Temperature 220 °C	7.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength at Break	42.7 MPa	6200 psi	ASTM D638
Elongation at Break	76 %	76 %	ASTM D638
Flexural Strength	60.0 MPa	8700 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	4.81 J/cm	9.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C @Thickness 6.35 mm	185 °F @Thickness 0.250 in	Unannealed; ASTM D648
Vicat Softening Point	96.0 °C	205 °F	ISO R-306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 °C	374 - 410 °F	H1
Middle Barrel Temperature	210 - 230 °C	410 - 446 °F	H2
Front Barrel Temperature	220 - 240 °C	428 - 464 °F	H3
Nozzle Temperature	220 - 240 °C	428 - 464 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	68.3 - 147 MPa	9900 - 21300 psi	
Back Pressure	0.979 - 1.96 MPa	142 - 284 psi	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

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