

PolyOne Edgetek® QT-20MN/000 natural HI Syndiotactic Polystyrene (SPS)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS)

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-QT-20MN000-natural-HI-Syndiotactic-Polystyrene-SPS.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc @Temperature 23.0 °C	0.0434 lb/in ³ @Temperature 73.4 °F	ISO 1183
Linear Mold Shrinkage, Flow	<= 0.013 cm/cm @Thickness 4.00 mm, Temperature 23.0 °C	<= 0.013 in/in @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded, Bergmann Method; No Standard
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa @Temperature 23.0 °C	7250 psi @Temperature 73.4 °F	Type I, 5.0 mm/min; ISO 527
Elongation at Break	1.5 % @Temperature 23.0 °C	1.5 % @Temperature 73.4 °F	Type I, 5.0 mm/min; ISO 527
Tensile Modulus	4.20 GPa @Temperature 23.0 °C	609 ksi @Temperature 73.4 °F	Type I, 5.0 mm/min; ISO 527
Charpy Impact Unnotched	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.30 J/cm ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	230 °C @Thickness 3.18 mm	446 °F @Thickness 0.125 in	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	UL 94

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 320 °C	518 - 608 °F	
Mold Temperature	80.0 - 150 °C	176 - 302 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Filler / Reinforcement	MineralInorganic	
Forms	Pellets	
Generic Material	SPS	
Generic Name	Syndiotactic Polystyrene (SPS)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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