

PolyOne Edgetek® QT-30GF/000 Natural 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-30GF000-Natural-Syndiotactic-Polystyrene-SPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	Type I, 5.0 mm/min; ISO 527
Elongation at Break	1.3 %	1.3 %	Type I, 5.0 mm/min; ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	Type I, 5.0 mm/min; ISO 527
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Charpy Impact Unnotched	3.40 J/cm ²	16.2 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	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
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Appearance Descriptive Properties	Natural Color Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement	
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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