

Solvay TECHNYLSTAR[®],ç S 218 MT PA6, 40% mineral filled, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

Description: TechnylStar Polyamide, 40% mineral filled, heat stabilized, for injection molding. Characterized by a high fluidity of the melt. Available in: Asia Pacific and North America Product Applications: This grade has good mechanical properties. It is suitable for automotive industry and specially designed for electroplating. This product is available in natural Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYLSTAR-S-218-MT-PA6-40-mineral-filled-DRY.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183/A
Water Absorption	0.72 % @Temperature 23.0 °C, Time 86400 sec	0.72 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0097 cm/cm	0.0097 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0074 cm/cm	0.0074 in/in	
Linear Mold Shrinkage, Transverse	0.0076 cm/cm	0.0076 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527 Type 1A
Elongation at Break	8.0 %	8.0 %	ISO 527 Type 1A
Tensile Modulus	5.80 GPa	841 ksi	ISO 527 Type 1A
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	85.0 kJ/m ²	40.4 ft-lb/in ²	ISO 180/1eU
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ISO 11357

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric <small>99.0 Â°C</small>	English <small>184 Â°F</small>	Comments <small>ISO 75-1A1</small>
Flammability, UL94	HB	HB	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	1210
	HB	HB	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 230 Â°C	428 - 446 Â°F	
Front Barrel Temperature	245 - 250 Â°C	473 - 482 Â°F	
Mold Temperature	80.0 Â°C	176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	240-250Â°C	

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