Solvay TECHNYLSTARâ„¢ SX 218 V50 PA6, 50% glass filled, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

Description: TECHNYLSTARâ„¢ SX 218 V50 is based on a patented high flow polyamide 6 resin (Technylstar), heat stabilized, reinforced with 50% of glass fiber, for injection molding. This product is available in black color.Benefits: Due to its outstanding flow characteristics, the product allows more freedom in mould and part design versus a standard polyamide solutions.Available in: Asia Pacific, Europe and North AmericaRegulations compliance: Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC. This grade complies with RoHS directive 2002/95/EC. Unless specified, this grade is not suitable for food contact, medical devices or toy applications.Applications: It is used in a wide variety of industries. The product is particularly suitable for all applications where a high rigidity is required.Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-TECHNYLSTAR-SX-218-V50-PA6-50-glass-filled-DRY.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/inÂ³	ISO 1183/A
Water Absorption	0.72 % @Temperature 23.0 Â°C, Time 86400 sec	0.72 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Viscosity	100 cP @Shear Rate 1000 1/s, Temperature 270 Â°C	100 cP @Shear Rate 1000 1/s, Temperature 518 Â°F	
	110 cP @Shear Rate 1000 1/s, Temperature 250 Â°C	110 cP @Shear Rate 1000 1/s, Temperature 482 Â°F	
	140 cP @Shear Rate 1000 1/s, Temperature 230 Â°C	140 cP @Shear Rate 1000 1/s, Temperature 446 Â°F	
	220 cP @Shear Rate 100 1/s, Temperature 270 Â°C	220 cP @Shear Rate 100 1/s, Temperature 518 Â°F	
	300 cP @Shear Rate 100 1/s, Temperature 250 Â°C	300 cP @Shear Rate 100 1/s, Temperature 482 Â°F	
	400 cP @Shear Rate 100 1/s, Temperature 230 Â°C	400 cP @Shear Rate 100 1/s, Temperature 446 Â°F	
Linear Mold Shrinkage	0.0076 cm/cm	0.0076 in/in	Isotropy

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.0025 cm/cm	0.0025 in/in	
Linear Mold Shrinkage, Transverse	0.0033 cm/cm	0.0033 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	230 MPa	33400 psi	ISO 527 Type 1A
Tensile Stress	25.0 MPa @Strain 0.500 %	3630 psi @Strain 0.500 %	
	140 MPa @Strain 1.00 %	20300 psi @Strain 1.00 %	
	210 MPa @Strain 2.00 %	30500 psi @Strain 2.00 %	
Elongation at Break	2.5 %	2.5 %	ASTM D638
	2.6 %	2.6 %	ISO 527 Type 1A
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527 Type 1A
Flexural Strength	320 MPa	46400 psi	ISO 178
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
	15.5 GPa	2250 ksi	ISO 178
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	90.0 kJ/mÂ²	42.8 ft-lb/inÂ²	ISO 180/1eU
Charpy Impact Unnotched	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ISO 75/Af
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	1210

Processing Properties	Metric	English	Comments
Feed Temperature	230 - 235 Â°C	446 - 455 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	235-240Â°C	
Mixing Zone	240-245Â°C	

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