

Solvay TECHNYLSTAR[®],ç AFX 218 V50 PA6, 50% glass filled, DRY

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

Material Notes:

Description TECHNYLSTAR[®],ç AFX 218 V50 is based on a patented high flow polyamide 66 resin (Technylstar), heat stabilized, reinforced with 50% of glass fiber, for injection molding. It is available in black and natural colors. Benefits: Due to its outstanding flow characteristics, the product shows exceptional processing behavior and excellent surface aspect of the finished part. Available in: Europe, Latin America and North America Regulations 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: The product is particularly suitable for all applications where a high rigidity is required: typically structural parts or brackets for the automotive industry. Its high mechanical performance allows that product to be an alternative to metal parts. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYLSTAR-AFX-218-V50-PA6-50-glass-filled-DRY.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183/A
Water Absorption	0.60 % @Temperature 23.0 °C, Time 86400 sec	0.60 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0034 cm/cm	0.0034 in/in	
Linear Mold Shrinkage, Transverse	0.0042 cm/cm	0.0042 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	255 MPa	37000 psi	ISO 527 Type 1A
Tensile Stress	100 MPa @Strain 1.00 %	14500 psi @Strain 1.00 %	
	145 MPa @Strain 2.00 %	21000 psi @Strain 2.00 %	
	180 MPa @Strain 3.00 %	26100 psi @Strain 3.00 %	
Elongation at Break	2.5 %	2.5 %	ISO 527 Type 1A
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527 Type 1A
Flexural Strength	380 MPa	55100 psi	ISO 178

Flexural Modulus Mechanical Properties	15.0 GPa Metric	2180 ksi English	ISO 178 Comments
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	88.0 kJ/m ²	41.9 ft-lb/in ²	ISO 180/1eU
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	264 Â°C	507 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	256 Â°C	493 Â°F	ISO 75/af
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	1210
Glow Wire Test	650 Â°C @Thickness 0.800 mm	1200 Â°F @Thickness 0.0315 in	ISO 60695-2-12
	675 Â°C @Thickness 0.800 mm	1250 Â°F @Thickness 0.0315 in	ignition temperature; ISO 60695-2-12

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Â°C	500 - 518 Â°F	
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280Â°C	
Mixing Zone	280-290Â°C	

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