

Solvay TECHNYLSTAR®, AFX 218S V50 PA6, 50% glass filled, DRY

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

Material Notes:

Description: High stiffness materials TECHNYLSTAR Polyamide 66, reinforced with 50% of glass fiber, heat stabilized for injection molding. Characterized by a high fluidity of the melt. Available in: Asia Pacific Product Applications: TECHNYLSTAR AFX 218S V50 BLACK 31N is used in automotive industry and industrial parts, demanding high mechanical strength, stiffness, thermal stability and excellent surface aspect, by a very easy flow and low injection molding pressure. This grade is widely used for automotive parts such as structural parts, brackets and pulleys. This product is available in black. 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-218S-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 %	0.60 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
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
Hardness, Rockwell R	121	121	ASTM D786
Tensile Strength, Yield	230 MPa	33400 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	355 MPa	51500 psi	ASTM D790
Flexural Modulus	16.0 GPa	2320 ksi	ASTM D790
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	256 °C	493 °F	ASTM D648
Flammability, UL94	HB	HB	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Â°C	500 - 518 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 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	270-280Â°C	

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