

Solvay TECHNYLSTAR[®],ç AFX 218 V60 PA6, 60% glass filled, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 60% Glass Fiber Filled

Material Notes:

Description: TECHNYLSTAR[®],ç AFX 218 V60 is based on a patented high flow polyamide 66 resin (Technylstar), heat stabilized, reinforced with 60% of glass fiber, for injection molding. 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 a 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-V60-PA6-60-glass-filled-DRY.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ISO 1183/A
Water Absorption	0.60 % @Temperature 23.0 Â°C, Time 86400 sec	0.60 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0082 cm/cm	0.0082 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0032 cm/cm	0.0032 in/in	
Linear Mold Shrinkage, Transverse	0.0039 cm/cm	0.0039 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	268 MPa	38900 psi	ISO 527 Type 1A
Tensile Stress	60.0 MPa @Strain 1.00 %, Temperature 160 Â°C	8700 psi @Strain 1.00 %, Temperature 320 Â°F	
	75.0 MPa @Strain 1.00 %, Temperature 120 Â°C	10900 psi @Strain 1.00 %, Temperature 248 Â°F	
	80.0 MPa @Strain 2.00 %, Temperature 160 Â°C	11600 psi @Strain 2.00 %, Temperature 320 Â°F	
	90.0 MPa	13100 psi	

Mechanical Properties	Metric @Strain 1.00 %, Temperature 80.0 Â°C	English @Strain 1.00 %, Temperature 176 Â°F	Comments
	95.0 MPa	13800 psi	
	@Strain 3.00 %, Temperature 160 Â°C	@Strain 3.00 %, Temperature 320 Â°F	
	105 MPa	15200 psi	
	@Strain 2.00 %, Temperature 120 Â°C	@Strain 2.00 %, Temperature 248 Â°F	
	125 MPa	18100 psi	
	@Strain 1.00 %, Temperature 60.0 Â°C	@Strain 1.00 %, Temperature 140 Â°F	
	125 MPa	18100 psi	
	@Strain 3.00 %, Temperature 120 Â°C	@Strain 3.00 %, Temperature 248 Â°F	
	150 MPa	21800 psi	
	@Strain 2.00 %, Temperature 80.0 Â°C	@Strain 2.00 %, Temperature 176 Â°F	
	165 MPa	23900 psi	
	@Strain 3.00 %, Temperature 80.0 Â°C	@Strain 3.00 %, Temperature 176 Â°F	
	170 MPa	24700 psi	
	@Strain 2.00 %, Temperature 60.0 Â°C	@Strain 2.00 %, Temperature 140 Â°F	
	175 MPa	25400 psi	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	190 MPa	27600 psi	
	@Strain 1.00 %, Temperature 0.000 Â°C	@Strain 1.00 %, Temperature 32.0 Â°F	
	190 MPa	27600 psi	
	@Strain 3.00 %, Temperature 60.0 Â°C	@Strain 3.00 %, Temperature 140 Â°F	
	200 MPa	29000 psi	
	@Strain 1.00 %, Temperature -40.0 Â°C	@Strain 1.00 %, Temperature -40.0 Â°F	
	260 MPa	37700 psi	
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	

Mechanical Properties	290 MPa Metric	42100 psi English	Comments
	@Strain 2.00 %, Temperature 0.000 Â°C	@Strain 2.00 %, Temperature 32.0 Â°F	
	325 MPa	47100 psi	
	@Strain 2.00 %, Temperature -40.0 Â°C	@Strain 2.00 %, Temperature -40.0 Â°F	
Elongation at Break	2.1 %	2.1 %	ISO 527 Type 1A
Tensile Modulus	22.0 GPa	3190 ksi	ISO 527 Type 1A
Flexural Strength	416 MPa	60300 psi	ISO 178
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/mÂ²	8.57 ft-lb/inÂ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	85.0 kJ/mÂ²	40.4 ft-lb/inÂ²	ISO 180/1eU
Charpy Impact Unnotched	9.80 J/cmÂ²	46.6 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.40 J/cmÂ²	6.66 ft-lb/inÂ²	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)	257 Â°C	495 Â°F	ISO 75/Af

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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