

Solvay TECHNYLSTAR®, AFX 218 V60 PA6, 60% glass filled, Conditioned

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

Material Notes:

Description: TECHNYLSTAR®, 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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	ISO 527 Type 1A
Tensile Stress	50.0 MPa	7250 psi	
	@Strain 1.00 %, Temperature 160 Â°C	@Strain 1.00 %, Temperature 320 Â°F	
	55.0 MPa	7980 psi	
	@Strain 1.00 %, Temperature 120 Â°C	@Strain 1.00 %, Temperature 248 Â°F	
	70.0 MPa	10200 psi	
	@Strain 2.00 %, Temperature 160 Â°C	@Strain 2.00 %, Temperature 320 Â°F	
	75.0 MPa	10900 psi	
	@Strain 1.00 %, Temperature 80.0 Â°C	@Strain 1.00 %, Temperature 176 Â°F	
	75.0 MPa	10900 psi	
	@Strain 3.00 %, Temperature 160 Â°C	@Strain 3.00 %, Temperature 320 Â°F	
	90.0 MPa	13100 psi	
	@Strain 2.00 %, Temperature 120 Â°C	@Strain 2.00 %, Temperature 248 Â°F	

Mechanical Properties	100 MPa Metric	14500 psi English	Comments
	@Strain 1.00 %, Temperature 60.0 Â°C	@Strain 1.00 %, Temperature 140 Â°F	
	100 MPa	14500 psi	
	@Strain 3.00 %, Temperature 120 Â°C	@Strain 3.00 %, Temperature 248 Â°F	
	125 MPa	18100 psi	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	125 MPa	18100 psi	
	@Strain 2.00 %, Temperature 80.0 Â°C	@Strain 2.00 %, Temperature 176 Â°F	
	135 MPa	19600 psi	
	@Strain 3.00 %, Temperature 80.0 Â°C	@Strain 3.00 %, Temperature 176 Â°F	
	140 MPa	20300 psi	
	@Strain 2.00 %, Temperature 60.0 Â°C	@Strain 2.00 %, Temperature 140 Â°F	
	150 MPa	21800 psi	
	@Strain 3.00 %, Temperature 60.0 Â°C	@Strain 3.00 %, Temperature 140 Â°F	
	175 MPa	25400 psi	
	@Strain 1.00 %, Temperature 0.000 Â°C	@Strain 1.00 %, Temperature 32.0 Â°F	
	175 MPa	25400 psi	
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	
	200 MPa	29000 psi	
	@Strain 1.00 %, Temperature -40.0 Â°C	@Strain 1.00 %, Temperature -40.0 Â°F	
	200 MPa	29000 psi	
	@Strain 3.00 %, Temperature 23.0 Â°C	@Strain 3.00 %, Temperature 73.4 Â°F	
	250 MPa	36300 psi	
	@Strain 2.00 %, Temperature 0.000 Â°C	@Strain 2.00 %, Temperature 32.0 Â°F	
	325 MPa	47100 psi	
	@Strain 2.00 %,	@Strain 2.00 %,	

Mechanical Properties	Temperature -40.0 Â°C Metric	Temperature -40.0 Â°F English	Comments
Elongation at Break	3.1 %	3.1 %	ISO 527 Type 1A
Tensile Modulus	18.0 GPa	2610 ksi	ISO 527 Type 1A
Izod Impact, Notched (ISO)	21.0 kJ/mÂ²	9.99 ft-lb/inÂ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	93.0 kJ/mÂ²	44.3 ft-lb/inÂ²	ISO 180/1eU
Charpy Impact Unnotched	10.1 J/cmÂ²	48.1 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	2.20 J/cmÂ²	10.5 ft-lb/inÂ²	ISO 179/1eA

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.20 %	<= 0.20 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China