

Solvay TECHNYLÂ® A 218HP V50 PA66, 35% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

Description: TECHNYLÂ® A 218HP V50 is a polyamide 66, reinforced with 50% of glass fiber, heat stabilized, for injection molding. This product is available in black color. Benefits: The product offers an outstanding long term heat resistance and is suitable to work in environments characterized by a very high temperature. Available in: Asia Pacific, Europe and Latin 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: It is used in a wide variety of industries, especially in automotive industry for air circuit parts such as intercoolers. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218HP-V50-PA66-35-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/inÂ³	ISO 1183/A
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	
	0.0090 cm/cm	0.0090 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	ISO 527 Type 1A
Tensile Stress	39.0 MPa	5660 psi	
	@Strain 1.00 %, Temperature 200 Â°C	@Strain 1.00 %, Temperature 392 Â°F	
	45.0 MPa	6530 psi	
	@Strain 2.00 %, Temperature 200 Â°C	@Strain 2.00 %, Temperature 392 Â°F	
	48.0 MPa	6960 psi	
	@Strain 3.00 %, Temperature 200 Â°C	@Strain 3.00 %, Temperature 392 Â°F	
	50.0 MPa	7250 psi	
	@Strain 4.00 %, Temperature 200 Â°C	@Strain 4.00 %, Temperature 392 Â°F	
	80.0 MPa	11600 psi	

Mechanical Properties	Metric @Strain 0.500 %, Temperature 23.0 Â°C	English @Strain 0.500 %, Temperature 73.4 Â°F	Comments
	150 MPa	21800 psi	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	180 MPa	26100 psi	
	@Strain 1.50 %, Temperature 23.0 Â°C	@Strain 1.50 %, Temperature 73.4 Â°F	
Elongation at Break	2.0 %	2.0 %	ISO 527 Type 1A
Tensile Modulus	15.0 GPa	2180 ksi	ISO 527 Type 1A
Flexural Strength	280 MPa	40600 psi	ASTM D790
	320 MPa	46400 psi	ISO 178
Flexural Modulus	13.5 GPa	1960 ksi	ISO 178
	13.5 GPa	1960 ksi	ASTM D790
Izod Impact, Notched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	ISO 180/1eA
Izod Impact, Unnotched (ISO)	80.0 kJ/mÂ²	38.1 ft-lb/inÂ²	ISO 180/1eU
Charpy Impact Unnotched	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.70 J/cmÂ²	8.09 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	253 Â°C	487 Â°F	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Feed Temperature			

Processing Properties	265 - 275 Â°C Metric	509 - 527 Â°F English	Comments
Mold Temperature	80.0 - 110 Â°C	176 - 230 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.12 %	<= 0.12 %	

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

Contact Songhan Plastic Technology Co.,Ltd.

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