

Solvay TECHNYL[®] A 218 V25 Black 21NHFE PA66, 25% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% Glass Fiber Filled

Material Notes:

Description: Polyamide 66, offering high flowability and productivity gains, reinforced with 25% of glass fiber, heat stabilized, for injection molding. Available in: Europe
 Product Applications: TECHNYL A 218 V25 BLACK 21NHFE is characterized by a high flowability and offers an excellent combination between thermal and mechanical properties. This grade is a perfect fit for the pulley application and gives very low rugosity levels. This grade improves the surface aspect and reduce the warpage of the parts. In the automotive industry, this Technyl grade definitely meets the requirements for engine components, such as: inlet manifold, air ducts - engine covers, pulleys and various housings and liquid containers. 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-TECHNYL-A-218-V25-Black-21NHFE-PA66-25-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183/A
Water Absorption	0.90 % @Temperature 23.0 Â°C, Time 86400 sec	0.90 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0071 cm/cm	0.0071 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527 Type 1A
Elongation at Break	2.7 %	2.7 %	ISO 527 Type 1A
Tensile Modulus	8.80 GPa	1280 ksi	ISO 527 Type 1A
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 Â°F	ISO 75/Af

Processing Properties	Metric	English	Comments
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Feed Temperature Processing Properties	270 - 275 Â°C Metric	518 - 527 Â°F English	Comments
Front Barrel Temperature	285 - 290 Â°C	545 - 554 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	280-285Â°C	

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