

Solvay TECHNYL® A 218 V40 Black 21 NHFE PA66, 40% glass fiber, DRY

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

Material Notes:

Description: Polyamide 66, offering high flowability and productivity gains, reinforced with 40% of glass fiber, heat stabilized, for injection molding. Available in: Europe
 Product Applications: TECHNYL® A 218 V40 BLACK 21NHFE is characterized by a high flowability and offers an excellent combination between thermal and mechanical properties. This grade is ideal for use in the automotive industry for engine components, such as: inlet manifolds, air ducts - engine covers, 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-V40-Black-21-NHFE-PA66-40-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183/A
Water Absorption	0.70 %	0.70 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	220 MPa	31900 psi	ISO 527 Type 1A
Elongation at Break	2.5 %	2.5 %	ISO 527 Type 1A
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527 Type 1A
Flexural Strength	305 MPa	44200 psi	ISO 178
Flexural Modulus	10.8 GPa	1570 ksi	ISO 178
Izod Impact, Notched (ISO)	13.5 kJ/m ²	6.42 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	9.70 J/cm ²	46.2 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA

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

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 °C	500 - 518 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280Å°C	

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