

Solvay TECHNYL® A 218 V35 Black 34 NG PA66, 35% glass fiber, DRY

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

Material Notes:

Description: TECHNYL® A 218 V35 Black 34 NG is a polyamide 66, reinforced with 35% of glass fiber, heat stabilized, for injection molding. The product is available in black color. Benefits: This product has been specially designed to improve its resistance to automotive cooling liquids, increasing lifetime of parts in permanent contact with such liquids. Available in: Europe 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: Cooling and heating radiator systems, header tanks, thermostat components, inlet & outlet pipes 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-V35-Black-34-NG-PA66-35-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183/A
Water Absorption	0.75 %	0.75 %	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	210 MPa	30500 psi	ISO 527 Type 1A
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527 Type 1A
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.35 J/cm ²	6.42 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 µm/m-°C	12.2 µin/in-°F	ISO 11359
	@Temperature 23.0 - 85.0 °C	@Temperature 73.4 - 185 °F	
Melting Point	260 °C	500 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	ISO 75/Af
	HB	HB	

Thermal Properties	Metric @ Thickness 0.800 mm	English @ Thickness 0.0315 in	1210 Comments
Oxygen Index	23 %	23 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	6.00e+14 ohm	6.00e+14 ohm	IEC 60093
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Â°C	500 - 518 Â°F	
Mold Temperature	70.0 - 100 Â°C	158 - 212 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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