

Solvay TECHNYL® A 218G1 V30 Black 34N PA66, 30% glass fiber, DRY

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

Material Notes:

Description: Polyamide 66, reinforced with 30% of glass fiber, for injection molding. This grade shows an improved retention of properties after long term ageing in automotive cooling liquids. For 700 hours' ageing at 132 °C and pressure of 2 bars in water glycol environment, impact properties are increased by 50% in comparison with standard glycol grade TECHNYL A218 V30 black 34NG. Available in: Asia Pacific and Latin America
 Product Applications: TECHNYL® A 218 G1 V30 BLACK 34N is particularly recommended for the injection molding of parts in permanent contact with cooling liquids in cars, such as: cooling and heating radiator systems, header tanks, thermostat components, inlet / outlet pipes. 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-218G1-V30-Black-34N-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183/A
Water Absorption	0.80 % @Temperature 23.0 °C, Time 86400 sec	0.80 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	ISO 527 Type 1A
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527 Type 1A
Flexural Strength	280 MPa	40600 psi	ISO 178
Flexural Modulus	9.20 GPa	1330 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	5.50 J/cm ² @Temperature 120 °C, Time 720000 sec	26.2 ft-lb/in ² @Temperature 248 °F, Time 200 hour	after aging water/glycol; ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359
	@Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	
Melting Point	263 $\text{Å}^\circ\text{C}$	505 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	ISO 75/ Af
Flammability, UL94	HB	HB	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	650 $\text{Å}^\circ\text{C}$	1200 $\text{Å}^\circ\text{F}$	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	6.00e+13 ohm	6.00e+13 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	500 V	500 V	Solution A; IEC 60112
	600 V	600 V	

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 $\text{Å}^\circ\text{C}$	500 - 518 $\text{Å}^\circ\text{F}$	
Front Barrel Temperature	280 - 290 $\text{Å}^\circ\text{C}$	536 - 554 $\text{Å}^\circ\text{F}$	
Mold Temperature	80.0 - 100 $\text{Å}^\circ\text{C}$	176 - 212 $\text{Å}^\circ\text{F}$	
Drying Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	
Moisture Content	≤ 0.20 %	≤ 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280 $\text{Å}^\circ\text{C}$	

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