

Solvay TECHNYLÂ® A 218G2 V30 Black 34N PA66, 30% glass fiber, DRY

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

Material Notes:

Description: TECHNYLÂ® A 218G2 V30 Black 34N is a polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection molding. The product is available in black color. Benefits: This grade shows an outstanding retention of properties after long term ageing in automotive cooling liquids, in comparison with standard glycol grade TECHNYLÂ® A 218 V30 black 34NG. Available in: Europe 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-218G2-V30-Black-34N-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/inÂ³	ISO 1183/A
Water Absorption	0.80 %	0.80 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0062 cm/cm	0.0062 in/in	Isotropy
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 Modulus	9.20 GPa	1330 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	8.70 J/cmÂ²	41.4 ft-lb/inÂ²	ISO 179/1eU
	6.70 J/cmÂ² @Temperature 135 Â°C, Time 720000 sec	31.9 ft-lb/inÂ² @Temperature 275 Â°F, Time 200 hour	after aging water/glycol; ISO 179/1eU
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	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	

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	70.0 - 100 $\text{Å}^\circ\text{C}$	158 - 212 $\text{Å}^\circ\text{F}$	
Drying Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	
Moisture Content	$\leq 0.20\%$	$\leq 0.20\%$	

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

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