

## Solvay TECHNYLÂ® A 218 V30 Black 21 NHFE PA66, 30% glass fiber, DRY

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

### Material Notes:

Description: TECHNYLÂ® A 218 V30 BLACK 21NHFE is a polyamide 6.6, high flow, reinforced with 30% of glass fiber, heat stabilized, for injection molding. This product is available in black color. Benefits: This product has enhanced molding behaviors and better surface aspect. It offers an excellent combination between thermal and mechanical properties. This grade is ideal for use in the automotive industry for engine components. 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: This grade is suitable for all kind of applications in automotive (pulleys, Inlet manifolds, air-ducts, engine covers, etc) and non automotive that required a good balanced behavior between surface aspect, thermal and mechanical behavior. 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-V30-Black-21-NHFE-PA66-30-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-V30-Black-21-NHFE-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 % @Temperature 23.0 Â°C, Time 86400 sec	0.80 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Viscosity	120 cP @Shear Rate 1000 1/s, Temperature 275 Â°C	120 cP @Shear Rate 1000 1/s, Temperature 527 Â°F	
	300 cP @Shear Rate 100 1/s, Temperature 275 Â°C	300 cP @Shear Rate 100 1/s, Temperature 527 Â°F	
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	190 MPa	27600 psi	ISO 527 Type 1A
Tensile Stress	100 MPa @Strain 1.00 %	14500 psi @Strain 1.00 %	
	165 MPa @Strain 2.00 %	23900 psi @Strain 2.00 %	

Mechanical Properties	Metric	English	Comments
	@Strain 3.00 %	@Strain 3.00 %	
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	9.00 GPa	1310 ksi	ISO 178
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Åµm/m-Å°C @Temperature 23.0 - 85.0 Å°C	13.9 Åµin/in-Å°F @Temperature 73.4 - 185 Å°F	ISO 11359
Melting Point	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	258 Å°C	496 Å°F	ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	254 Å°C	489 Å°F	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Å°C	500 - 518 Å°F	
Mold Temperature	70.0 - 100 Å°C	158 - 212 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	
Mixing Zone	280-290Å°C	

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