

## Solvay TECHNYL® A 218 V35 Black 21NHFE 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 21NHFE is polyamide 6.6, high flow, reinforced with 35% 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. This grade is ideal for Mucell® injection molding technology. **Available in:** Asia Pacific, Europe, Latin America 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:** This grade is suitable for all kind of applications in automotive (pulleys, Inlet manifolds, air-ducts, engine covers) 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-V35-Black-21NHFE-PA66-35-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-V35-Black-21NHFE-PA66-35-glass-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	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	
Viscosity	130 cP	130 cP	
	@Shear Rate 100 1/s, Temperature 275 °C	@Shear Rate 100 1/s, Temperature 527 °F	
Linear Mold Shrinkage	300 cP	300 cP	Isotropy
	@Shear Rate 10.0 1/s, Temperature 275 °C	@Shear Rate 10.0 1/s, Temperature 527 °F	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0045 cm/cm	0.0045 in/in	
	0.0075 cm/cm	0.0075 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	ISO 527 Type 1A
Tensile Stress	110 MPa	16000 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	180 MPa	26100 psi	

Mechanical Properties	@Strain 2.00 % Metric	@Strain 2.00 % English	Comments
	205 MPa	29700 psi	
	@Strain 3.00 %	@Strain 3.00 %	
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	11.1 GPa	1610 ksi	ISO 527 Type 1A
Flexural Strength	280 MPa	40600 psi	ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	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	265 - 275 °C	509 - 527 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280°C	
Mixing Zone	280-290°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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