

## Solvay TECHNYLÂ® A 218W V33 Natural T PA66, 33% glass fiber, DRY

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

### Material Notes:

Description: TECHNYLÂ® A 218W V33 Nat T is a polyamide 66, reinforced with 33% of glass fiber, heat stabilized, for injection molding. This product is available in natural color. Benefits: The product is particularly recommended for the molding of parts where some translucency is required, as well as surface aesthetics is important. Available in: 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 particularly recommended for the injection molding of parts in permanent contact with cooling liquids in cars, such as reservoir bottles. 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-218W-V33-Natural-T-PA66-33-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218W-V33-Natural-T-PA66-33-glass-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/inÂ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ISO 527 Type 1A
Tensile Stress	25.0 MPa	3630 psi	
	@Strain 1.00 %, Temperature 150 Â°C	@Strain 1.00 %, Temperature 302 Â°F	
	35.0 MPa	5080 psi	
	@Strain 1.00 %, Temperature 100 Â°C	@Strain 1.00 %, Temperature 212 Â°F	
	45.0 MPa	6530 psi	
	@Strain 2.00 %, Temperature 150 Â°C	@Strain 2.00 %, Temperature 302 Â°F	
	55.0 MPa	7980 psi	
	@Strain 3.00 %, Temperature 150 Â°C	@Strain 3.00 %, Temperature 302 Â°F	
	60.0 MPa	8700 psi	
	@Strain 2.00 %, Temperature 100 Â°C	@Strain 2.00 %, Temperature 212 Â°F	
	60.0 MPa	8700 psi	
	@Strain 4.00 %, Temperature 150 Â°C	@Strain 4.00 %, Temperature 302 Â°F	
	70.0 MPa	10200 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 6.00 %, Temperature 150 Â°C	@Strain 6.00 %, Temperature 302 Â°F	
	<b>75.0 MPa</b>	<b>10900 psi</b>	
	@Strain 10.0 %, Temperature 150 Â°C	@Strain 10.0 %, Temperature 302 Â°F	
	<b>80.0 MPa</b>	<b>11600 psi</b>	
	@Strain 3.00 %, Temperature 100 Â°C	@Strain 3.00 %, Temperature 212 Â°F	
	<b>85.0 MPa</b>	<b>12300 psi</b>	
	@Strain 4.00 %, Temperature 100 Â°C	@Strain 4.00 %, Temperature 212 Â°F	
	<b>90.0 MPa</b>	<b>13100 psi</b>	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	<b>95.0 MPa</b>	<b>13800 psi</b>	
	@Strain 6.00 %, Temperature 100 Â°C	@Strain 6.00 %, Temperature 212 Â°F	
	<b>100 MPa</b>	<b>14500 psi</b>	
	@Strain 10.0 %, Temperature 100 Â°C	@Strain 10.0 %, Temperature 212 Â°F	
	<b>105 MPa</b>	<b>15200 psi</b>	
	@Strain 1.00 %, Temperature -40.0 Â°C	@Strain 1.00 %, Temperature -40.0 Â°F	
	<b>155 MPa</b>	<b>22500 psi</b>	
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	
	<b>180 MPa</b>	<b>26100 psi</b>	
	@Strain 2.00 %, Temperature -40.0 Â°C	@Strain 2.00 %, Temperature -40.0 Â°F	
	<b>180 MPa</b>	<b>26100 psi</b>	
	@Strain 3.00 %, Temperature 23.0 Â°C	@Strain 3.00 %, Temperature 73.4 Â°F	
	<b>220 MPa</b>	<b>31900 psi</b>	
	@Strain 3.00 %, Temperature -40.0 Â°C	@Strain 3.00 %, Temperature -40.0 Â°F	
<b>Elongation at Break</b>	<b>3.8 %</b>	<b>3.8 %</b>	<b>ISO 527 Type 1A</b>
<b>Tensile Modulus</b>	<b>10.2 GPa</b>	<b>1480 ksi</b>	<b>ISO 527 Type 1A</b>

Mechanical Properties	Metric	English	Comments
Flexural Modulus	8.95 GPa	1300 ksi	ISO 178
Izod Impact, Notched (ISO)	11.3 kJ/m <sup>2</sup>	5.38 ft-lb/in <sup>2</sup>	ISO 180/1eA
Charpy Impact Unnotched	9.07 J/cm <sup>2</sup>	43.2 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm <sup>2</sup> @Temperature -40.0 Â°C	4.28 ft-lb/in <sup>2</sup> @Temperature -40.0 Â°F	ISO 179/1eA
	1.10 J/cm <sup>2</sup> @Temperature 23.0 Â°C	5.23 ft-lb/in <sup>2</sup> @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	263 Â°C	505 Â°F	ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	247 Â°C	477 Â°F	ISO 75/ Af

Processing Properties	Metric	English	Comments
Feed Temperature	255 - 265 Â°C	491 - 509 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	265-275Â°C	
Mixing Zone	275-280Â°C	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

**Address : United North Road 215,Fengxian District, Shanghai City,China**