

## Solvay TECHNYLÂ® A 218 V30 BK 34 NG 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 34 NG is a polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection molding. The product is available in black color. Benefits: This product has been specially designed to improve its resistance to automotive cooling liquids, increasing lifetime of parts in permanent contact with such a liquids. 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: 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-218-V30-BK-34-NG-PA66-30-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-V30-BK-34-NG-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	
Viscosity	20 cP	20 cP	
	@Shear Rate 1000 1/s, Temperature 280 Â°C	@Shear Rate 1000 1/s, Temperature 536 Â°F	
	20 cP	20 cP	
	@Shear Rate 1000 1/s, Temperature 290 Â°C	@Shear Rate 1000 1/s, Temperature 554 Â°F	
	20 cP	20 cP	
	@Shear Rate 1000 1/s, Temperature 300 Â°C	@Shear Rate 1000 1/s, Temperature 572 Â°F	
120 cP	@Shear Rate 10.0 1/s, Temperature 300 Â°C	@Shear Rate 10.0 1/s, Temperature 572 Â°F	
	135 cP	135 cP	
@Shear Rate 100 1/s, Temperature 300 Â°C	@Shear Rate 100 1/s, Temperature 572 Â°F		
140 cP	140 cP		
@Shear Rate 100 1/s, Temperature 290 Â°C	@Shear Rate 100 1/s, Temperature 554 Â°F		
150 cP	150 cP		

Physical Properties	Metric	English	Comments
	@Shear Rate 100 1/s, Temperature 280 Å°C	@Shear Rate 100 1/s, Temperature 536 Å°F	
	250 cP	250 cP	
	@Shear Rate 10.0 1/s, Temperature 290 Å°C	@Shear Rate 10.0 1/s, Temperature 554 Å°F	
	300 cP	300 cP	
	@Shear Rate 10.0 1/s, Temperature 280 Å°C	@Shear Rate 10.0 1/s, Temperature 536 Å°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	30.0 MPa	4350 psi	
	@Strain 1.00 %, Temperature 120 Å°C	@Strain 1.00 %, Temperature 248 Å°F	
	40.0 MPa	5800 psi	
	@Strain 1.00 %, Temperature 80.0 Å°C	@Strain 1.00 %, Temperature 176 Å°F	
	80.0 MPa	11600 psi	
	@Strain 1.00 %, Temperature -30.0 Å°C	@Strain 1.00 %, Temperature -22.0 Å°F	
	80.0 MPa	11600 psi	
	@Strain 1.00 %, Temperature 0.000 Å°C	@Strain 1.00 %, Temperature 32.0 Å°F	
	80.0 MPa	11600 psi	
	@Strain 1.00 %, Temperature 23.0 Å°C	@Strain 1.00 %, Temperature 73.4 Å°F	
	80.0 MPa	11600 psi	
	@Strain 3.00 %, Temperature 120 Å°C	@Strain 3.00 %, Temperature 248 Å°F	
	100 MPa	14500 psi	
	@Strain 3.00 %, Temperature 80.0 Å°C	@Strain 3.00 %, Temperature 176 Å°F	
	100 MPa	14500 psi	

Mechanical Properties	Metric @Strain 6.00 %, Temperature 120 Â°C	English @Strain 6.00 %, Temperature 248 Â°F	Comments
	120 MPa	17400 psi	
	@Strain 6.00 %, Temperature 80.0 Â°C	@Strain 6.00 %, Temperature 176 Â°F	
	165 MPa	23900 psi	
	@Strain 2.00 %, Temperature 0.000 Â°C	@Strain 2.00 %, Temperature 32.0 Â°F	
	165 MPa	23900 psi	
	@Strain 2.00 %, Temperature 23.0 Â°C	@Strain 2.00 %, Temperature 73.4 Â°F	
	178 MPa	25800 psi	
	@Strain 2.00 %, Temperature -30.0 Â°C	@Strain 2.00 %, Temperature -22.0 Â°F	
	190 MPa	27600 psi	
	@Strain 3.00 %, Temperature 23.0 Â°C	@Strain 3.00 %, Temperature 73.4 Â°F	
	195 MPa	28300 psi	
	@Strain 3.00 %, Temperature 0.000 Â°C	@Strain 3.00 %, Temperature 32.0 Â°F	
	215 MPa	31200 psi	
	@Strain 3.00 %, Temperature -30.0 Â°C	@Strain 3.00 %, Temperature -22.0 Â°F	
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
	290 MPa	42100 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
	9.00 GPa	1310 ksi	ASTM D790
Izod Impact, Notched	1.15 J/cm	2.15 ft-lb/in	ASTM D256
Izod Impact, Unnotched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	ISO 180/1eU
Charpy Impact Unnotched	8.00 J/cmÂ²	38.1 ft-lb/inÂ²	ISO 179/1eU
	4.20 J/cmÂ²	20.0 ft-lb/inÂ²	ISO 179/1eU
	@Temperature 135 Â°C, Time 720000 sec	@Temperature 275 Â°F, Time 200 hour	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Â°C, Time 720000 sec	@Temperature 248 Â°F, Time 200 hour	ISO 179/1eD
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	25.0 Âµm/m-Â°C @Temperature 23.0 - 85.0 Â°C	13.9 Âµin/in-Â°F @Temperature 73.4 - 185 Â°F	ISO 11359
CTE, linear, Transverse to Flow	2.50 Âµm/m-Â°C @Temperature 23.0 - 85.0 Â°C	1.39 Âµin/in-Â°F @Temperature 73.4 - 185 Â°F	ISO 11359
Melting Point	263 Â°C	505 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	ISO 75/ Af
	255 Â°C	491 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	650 Â°C @Thickness 1.60 mm	1200 Â°F @Thickness 0.0630 in	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	6.00e+14 ohm	6.00e+14 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
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 B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	265 - 275 Â°C	509 - 527 Â°F	

Mold Temperature Processing Properties	70.0 - 100 Â°C Metric	158 - 212 Â°F English	Comments
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

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

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