

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

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

### Material Notes:

Description: TECHNYLÂ® A 218 V30 is a polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection molding. This product is available in natural and black colors. Benefits: The product offers an excellent combination between thermal and mechanical properties. 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: It is used in a wide variety of industries. 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-PA66-30-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-218-V30-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	20 cP @Shear Rate 1000 1/s, Temperature 280 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 536 Â°F	
	20 cP @Shear Rate 1000 1/s, Temperature 290 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 554 Â°F	
	20 cP @Shear Rate 1000 1/s, Temperature 300 Â°C	20 cP @Shear Rate 1000 1/s, Temperature 572 Â°F	
	120 cP @Shear Rate 10.0 1/s, Temperature 300 Â°C	120 cP @Shear Rate 10.0 1/s, Temperature 572 Â°F	
	135 cP @Shear Rate 100 1/s, Temperature 300 Â°C	135 cP @Shear Rate 100 1/s, Temperature 572 Â°F	
	140 cP @Shear Rate 100 1/s, Temperature 290 Â°C	140 cP @Shear Rate 100 1/s, Temperature 554 Â°F	
	150 cP	150 cP	

Physical Properties	Metric @Shear Rate 100 1/s, Temperature 280 Å°C	English @Shear Rate 100 1/s, Temperature 536 Å°F	Comments
	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 100 Å°C	@Strain 1.00 %, Temperature 212 Å°F	
	45.0 MPa	6530 psi	
	@Strain 1.00 %, Temperature 80.0 Å°C	@Strain 1.00 %, Temperature 176 Å°F	
	60.0 MPa	8700 psi	
	@Strain 2.00 %, Temperature 0.000 Å°C	@Strain 2.00 %, Temperature 32.0 Å°F	
	65.0 MPa	9430 psi	
	@Strain 2.00 %, Temperature 120 Å°C	@Strain 2.00 %, Temperature 248 Å°F	
	70.0 MPa	10200 psi	
	@Strain 2.00 %, Temperature 100 Å°C	@Strain 2.00 %, Temperature 212 Å°F	
	80.0 MPa	11600 psi	
	@Strain 2.00 %, Temperature 80.0 Å°C	@Strain 2.00 %, Temperature 176 Å°F	
	80.0 MPa	11600 psi	
	@Strain 3.00 %,	@Strain 3.00 %,	

Mechanical Properties	Temperature 120 Â°C Metric	Temperature 248 Â°F English	Comments
	90.0 MPa	13100 psi	
	@Strain 1.00 %, Temperature -30.0 Â°C	@Strain 1.00 %, Temperature -22.0 Â°F	
	90.0 MPa	13100 psi	
	@Strain 1.00 %, Temperature 0.000 Â°C	@Strain 1.00 %, Temperature 32.0 Â°F	
	90.0 MPa	13100 psi	
	@Strain 1.00 %, Temperature 23.0 Â°C	@Strain 1.00 %, Temperature 73.4 Â°F	
	90.0 MPa	13100 psi	
	@Strain 3.00 %, Temperature 100 Â°C	@Strain 3.00 %, Temperature 212 Â°F	
	90.0 MPa	13100 psi	
	@Strain 4.00 %, Temperature 120 Â°C	@Strain 4.00 %, Temperature 248 Â°F	
	100 MPa	14500 psi	
	@Strain 3.00 %, Temperature 80.0 Â°C	@Strain 3.00 %, Temperature 176 Â°F	
	100 MPa	14500 psi	
	@Strain 4.00 %, Temperature 100 Â°C	@Strain 4.00 %, Temperature 212 Â°F	
	100 MPa	14500 psi	
	@Strain 6.00 %, Temperature 120 Â°C	@Strain 6.00 %, Temperature 248 Â°F	
	102 MPa	14800 psi	
	@Strain 9.00 %, Temperature 120 Â°C	@Strain 9.00 %, Temperature 248 Â°F	
	110 MPa	16000 psi	
	@Strain 6.00 %, Temperature 100 Â°C	@Strain 6.00 %, Temperature 212 Â°F	
	110 MPa	16000 psi	
	@Strain 9.00 %, Temperature 100 Â°C	@Strain 9.00 %, Temperature 212 Â°F	
	115 MPa	16700 psi	
	@Strain 4.00 %, Temperature 80.0 Â°C	@Strain 4.00 %, Temperature 176 Â°F	
	120 MPa	17400 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 6.00 %, Temperature 80.0 Å°C	@Strain 6.00 %, Temperature 176 Å°F	
	160 MPa	23200 psi	
	@Strain 2.00 %, Temperature 23.0 Å°C	@Strain 2.00 %, Temperature 73.4 Å°F	
	170 MPa	24700 psi	
	@Strain 2.00 %, Temperature -30.0 Å°C	@Strain 2.00 %, Temperature -22.0 Å°F	
	190 MPa	27600 psi	
	@Strain 3.00 %, Temperature 0.000 Å°C	@Strain 3.00 %, Temperature 32.0 Å°F	
	195 MPa	28300 psi	
	@Strain 3.00 %, Temperature 23.0 Å°C	@Strain 3.00 %, Temperature 73.4 Å°F	
	210 MPa	30500 psi	
	@Strain 3.00 %, Temperature -30.0 Å°C	@Strain 3.00 %, Temperature -22.0 Å°F	
Elongation at Break	3.0 %	3.0 %	ASTM D638
	3.3 %	3.3 %	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
Izod Impact, Notched	1.15 J/cm	2.15 ft-lb/in	ASTM D256
Izod Impact, Unnotched (ISO)	60.0 kJ/mÅ²	28.6 ft-lb/inÅ²	ISO 180/1eU
Charpy Impact Unnotched	8.00 J/cmÅ²	38.1 ft-lb/inÅ²	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cmÅ²	5.23 ft-lb/inÅ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	ISO 11359
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
CTE, linear, Transverse to Flow	2.50 Åµm/m-Å°C	1.39 Åµin/in-Å°F	ISO 11359
	@Temperature 23.0 -	@Temperature 73.4 -	

Thermal Properties	85.0 Å°C Metric	185 Å°F English	Comments
Melting Point	260 Å°C	500 Å°F	ASTM D3417
	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 Å°C	491 Å°F	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	23 %	23 %	ISO 4589
Glow Wire Test	700 Å°C	1290 Å°F	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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 Å°C	509 - 527 Å°F	
Mold Temperature	70.0 - 100 Å°C	158 - 212 Å°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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