

Solvay TECHNYL® A 218 PA66, 33% glass fiber, DRY

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

Material Notes:

Standard viscosity, heat stabilized for injection molding. It is available in natural and black colors. Benefits: This product offers all the primary properties of unreinforced polyamide 66. In addition, it has improved resistance to high temperature, and can be used for components which will withstand long-term temperature stresses. 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. 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-PA66-33-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183/A
Water Absorption	1.3 %	1.3 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Viscosity	20 cP	20 cP	shear rate: 1000/s
	@Shear Rate 1000 1/s, Temperature 290 °C	@Shear Rate 1000 1/s, Temperature 554 °F	
	20.5 cP	20.5 cP	shear rate: 1000/s
	@Shear Rate 1000 1/s, Temperature 280 °C	@Shear Rate 1000 1/s, Temperature 536 °F	
	60 cP	60 cP	shear rate: 100/s
	@Shear Rate 100 1/s, Temperature 300 °C	@Shear Rate 100 1/s, Temperature 572 °F	
70 cP	70 cP	shear rate: 100/s	
@Shear Rate 100 1/s, Temperature 290 °C	@Shear Rate 100 1/s, Temperature 554 °F		
100 cP	100 cP	shear rate: 100/s	
@Shear Rate 100 1/s, Temperature 280 °C	@Shear Rate 100 1/s, Temperature 536 °F		
101 cP	101 cP	shear rate: 10/s	
@Shear Rate 10.0 1/s, Temperature 300 °C	@Shear Rate 10.0 1/s, Temperature 572 °F		
105 cP	105 cP	shear rate: 10/s	
@Shear Rate 10.0 1/s,	@Shear Rate 10.0 1/s,		

Physical Properties	Temperature 290 °C Metric	Temperature 554 °F English	Comments
	120 cP	120 cP	
	@Shear Rate 10.0 1/s, Temperature 280 °C	@Shear Rate 10.0 1/s, Temperature 536 °F	shear rate: 10/s
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	



Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527 Type 1A
Tensile Stress	30.0 MPa	4350 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	58.0 MPa	8410 psi	
	@Strain 2.00 %	@Strain 2.00 %	
	78.0 MPa	11300 psi	
	@Strain 3.00 %	@Strain 3.00 %	
	85.0 MPa	12300 psi	
	@Strain 4.00 %	@Strain 4.00 %	
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527 type 1 A
Elongation at Break	30 %	30 %	ASTM D638
	50 %	50 %	ISO 527 Type 1A
Elongation at Yield	4.0 %	4.0 %	ISO 527 type 1 A
Tensile Modulus	3.00 GPa	435 ksi	ISO 527 Type 1A
Flexural Strength	120 MPa	17400 psi	ISO 178
	125 MPa	18100 psi	ASTM D790
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
	3.30 GPa	479 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1eA

Charpy Impact Unnotched Mechanical Properties	NB Metric	NB English	ISO 179/1eJ Comments
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359
	@Temperature 23.0 - 85.0 °C	@Temperature 73.4 - 185 °F	
Melting Point	263 °C	505 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 75/Af
	220 °C	428 °F	ASTM D648
Flammability, UL94	V-2	V-2	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	26 %	26 %	ISO 4589
Glow Wire Test	650 °C	1200 °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	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243
Dissipation Factor	0.030	0.030	IEC 60250
Comparative Tracking Index	350 V	350 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

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	

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

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