

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

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

Material Notes:

Description: TECHNYLÂ® A 218W V30 Nat is a polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection molding. This product is available in natural color. **Benefits:** The product offers an outstanding long term heat resistance and is suitable to work in environments characterized by a very high temperature. The product offers an improved hydrolysis resistance, as well as an excellent combination between thermal and mechanical properties. It also restricts electrolytical corrosion. **Available in:** Asia Pacific and Europe **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 recommended for the production of mechanical components in permanent or intermittent contact with hot water, such as electro-magnetic valves. It can also be used as insulation material for electronic connectors, due to its limited electrolytical corrosion. **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-V30-Natural-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 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	120 cP	120 cP	
	@Shear Rate 100 1/s, Temperature 290 Â°C	@Shear Rate 100 1/s, Temperature 554 Â°F	
	150 cP	150 cP	
	@Shear Rate 100 1/s, Temperature 280 Â°C	@Shear Rate 100 1/s, Temperature 536 Â°F	
	200 cP	200 cP	
	@Shear Rate 100 1/s, Temperature 270 Â°C	@Shear Rate 100 1/s, Temperature 518 Â°F	
	205 cP	205 cP	
	@Shear Rate 10.0 1/s, Temperature 290 Â°C	@Shear Rate 10.0 1/s, Temperature 554 Â°F	
	300 cP	300 cP	
	@Shear Rate 10.0 1/s, Temperature 280 Â°C	@Shear Rate 10.0 1/s, Temperature 536 Â°F	
	500 cP	500 cP	
	@Shear Rate 10.0 1/s,	@Shear Rate 10.0 1/s,	

Physical Properties	Temperature 270 Â°C Metric	Temperature 518 Â°F English	Comments
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	85.0 MPa	12300 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	155 MPa	22500 psi	
	@Strain 2.00 %	@Strain 2.00 %	
	180 MPa	26100 psi	
	@Strain 3.00 %	@Strain 3.00 %	
Elongation at Break	3.2 %	3.2 %	ISO 527 Type 1A
Tensile Modulus	1.00 GPa	145 ksi	ISO 527 Type 1A
Flexural Strength	270 MPa	39200 psi	ISO 178
Flexural Modulus	8.60 GPa	1250 ksi	ASTM D790
	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched	1.05 J/cm	1.97 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	ISO 179/1eU
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	28.0 Âµm/m-Â°C	15.6 Âµin/in-Â°F	ISO 11359
	@Temperature 23.0 - 85.0 Â°C	@Temperature 73.4 - 185 Â°F	
CTE, linear, Transverse to Flow	2.80 Âµm/m-Â°C	1.56 Âµin/in-Â°F	ISO 11359
	@Temperature 23.0 - 85.0 Â°C	@Temperature 73.4 - 185 Â°F	
Melting Point	262 Â°C	504 Â°F	ISO 11357

Thermal Properties (Deflection Temperature at 1.8 MPa 1.8 MPa)	250 Â°C Metric	482 Â°F English	ASTM D648 Comments
	254 Â°C	489 Â°F	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Glow Wire Test	700 Â°C @Thickness 1.60 mm	1290 Â°F @Thickness 0.0630 in	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	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	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	270-280Â°C	
Mixing Zone	280-290Â°C	

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