

Solvay TECHNYL® A 218W V30 Black FA PA66, 30% glass fiber, DRY

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

Material Notes:

Description: Polyamide 66, reinforced with 30% of glass fiber, for injection molding, heat stabilized, with improved hydrolysis resistance. Available in: Europe Product Applications: TECHNYL A 218W V30 Black FA is used in all sectors of industry, offering an excellent combination of thermal and mechanical properties. This grade is recommended for the production of mechanical components in permanent or intermittent contact with hot water: i.e. (electro-magnetic valves). This material restricts electrolytical corrosion and can be used as insulation material for electronic connectors. The values of properties are for black grade. 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-Black-FA-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183/A
Water Absorption	0.80 % @Temperature 23.0 °C, Time 86400 sec	0.80 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
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	185 MPa	26800 psi	ISO 527 Type 1A
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527 Type 1A
Flexural Strength	275 MPa	39900 psi	ISO 178
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
	28.0 Åµm/m-Å°C	15.6 Åµin/in-Å°F	

CTE linear Parallel to Flow Thermal Properties	Metric @ Temperature 23.0 - 85.0 Â°C	English @ Temperature 73.4 - 185 Â°F	ISO 11359 Comments
Melting Point	263 Â°C	505 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 Â°F	ISO 75/af
Flammability, UL94	HB	HB	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	1210
	HB	HB	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	700 Â°C	1290 Â°F	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 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	260 - 270 Â°C	500 - 518 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 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	

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