

Solvay TECHNYL® C 218 V33 PA6, 33% glass fiber, Eh 0

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Description: Polyamide PA6, reinforced with 33% of glass fiber, heat stabilized, for injection molding. Applications: It has good mechanical properties, it is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. It is used in the automotive industry and electrical sectors. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-C-218-V33-PA6-33-glass-fiber-Eh-0.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183/A
Water Absorption	0.92 % @Temperature 23.0 °C, Time 86400 sec	0.92 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	ISO 527 Type 1A
Elongation at Break	3.1 %	3.1 %	ISO 527 Type 1A
Tensile Modulus	10.2 GPa	1480 ksi	ISO 527 Type 1A
Flexural Modulus	9.66 GPa	1400 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180/1eA
Charpy Impact, Notched	1.59 J/cm ²	7.57 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Glow Wire Test	650 °C @Thickness 1.60 mm	1200 °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	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	550 V	550 V	Solution A; IEC60112

Processing Properties	Metric	English	Comments
Feed Temperature	225 - 230 Â°C	437 - 446 Â°F	
Front Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	230-240Â°C	

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