

Solvay Technyl® C 218 V50 50% Glass Filled, Heat Stabilized Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

Material Notes:

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-V50-50-Glass-Filled-Heat-Stabilized-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183-A
Water Absorption	0.75 %	0.75 %	24 Hr.; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	225 MPa	32600 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	14.6 GPa	2120 ksi	ISO 527
Flexural Strength	360.00 MPa	52214 psi	ISO 178
Flexural Modulus	14.5 GPa	2100 ksi	ISO 178
Izod Impact, Notched (ISO)	18.9 kJ/m ²	9.00 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	ISO 3146-C
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C	419 Â°F	ISO 75-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Feed Temperature	225 - 230 Â°C	437 - 446 Â°F	
Middle Barrel Temperature	230 - 240 Â°C	446 - 464 Â°F	Compression Zone
Front Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	
Nozzle Temperature	241 - 260 Â°C	465 - 500 Â°F	

Melt Temperature Processing Properties	230 - 260 Å°C Metric	446 - 500 Å°F English	Comments
Mold Temperature	80.0 - 100 Å°C	176 - 212 Å°F	Surface
Drying Temperature	80.0 Å°C	176 Å°F	Dehumidifying Dryer
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	
Back Pressure	0.138 - 0.345 MPa	20.0 - 50.0 psi	
Fill Speed	200 - 600 mm/sec	7.87 - 23.6 in/sec	Peripheral Screw Speed

Descriptive Properties	Value	Comments
Injection Speed (cm ³ /sec)	120 - 170 cm ³ /sec	

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