

Solvay Technyl® C218V30 30% Glass Filled, Heat Stabilized Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% 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-C218V30-30-Glass-Filled-Heat-Stabilized-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183-A
Water Absorption	0.95 %	0.95 %	24 Hr.; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	ISO 527
Elongation at Break	3.8 %	3.8 %	ISO 527
Tensile Modulus	9.58 GPa	1390 ksi	ISO 527
Flexural Strength	240 MPa	34800 psi	ISO 178
Flexural Modulus	8.41 GPa	1220 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 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 1.8 MPa (264 psi)	205 Â°C	401 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	230 - 260 Â°C	446 - 500 Â°F	

Mold Temperature Processing Properties	80.0 - 100 Â°C Metric	176 - 212 Â°F English	Surface Comments
Drying Temperature	80.0 Â°C	176 Â°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 (cm3/sec)	120 - 170 cm ³ /sec	

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