

Solvay Technyl® C216V15 15% Glass Filled Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% 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-C216V15-15-Glass-Filled-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183-A
Water Absorption	1.15 %	1.15 %	24 Hr.; ISO 62

Mechanical Properties	Metric	English	Comments
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	6.09 GPa	884 ksi	ISO 527
Izod Impact, Notched (ISO)	5.46 kJ/m ²	2.60 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)	205 Â°C	401 Â°F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	180 Â°C	356 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	80.0 - 100 Â°C	176 - 212 Â°F	Surface
Drying Temperature	80.0 Â°C	176 Â°F	Dehumidifying Dryer

Dry Time Processing Properties	3 - 4 hour Metric	3 - 4 hour English	Comments
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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