

Solvay Technyl® C216V30 30% Glass Filled 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-C216V30-30-Glass-Filled-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.80 %	0.80 %	24 Hr.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	175 MPa	25400 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Tensile Modulus	9.72 GPa	1410 ksi	ASTM D638
Flexural Strength	240 MPa	34800 psi	ASTM D790
Flexural Modulus	8.41 GPa	1220 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	212 Å°C	414 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C	419 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	ASTM D648
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	

Processing Properties	Metric	English	Comments
Feed Temperature	225 - 230 Å°C	437 - 446 Å°F	
Middle Barrel Temperature	230 - 240 Å°C	446 - 464 Å°F	Compression Zone
Front Barrel Temperature	240 - 250 Å°C	464 - 482 Å°F	

Nozzle Temperature Processing Properties	241 - 260 Â°C Metric	465 - 500 Â°F English	Comments
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	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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