

Solvay Technyl® C206F Unfilled, Fast Cycle Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

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-C206F-Unfilled-Fast-Cycle-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183-A
Water Absorption	1.3 %	1.3 %	24 Hr.; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.01 MPa	12330 psi	ISO 527
Elongation at Break	120 %	120 %	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	ISO 527
Flexural Strength	115 MPa	16700 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Izod Impact, Notched (ISO)	5.25 kJ/m ²	2.50 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)	185 Â°C	365 Â°F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C	176 Â°F	ISO 75-2
Flammability, UL94	V-2 @Thickness 3.20 mm	V-2 @Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 230 Â°C	428 - 446 Â°F	
Middle Barrel Temperature	225 - 235 Â°C	437 - 455 Â°F	Compression Zone
Front Barrel Temperature	230 - 240 Â°C	446 - 464 Â°F	
Nozzle Temperature	229 - 249 Â°C	445 - 480 Â°F	

Melt Temperature Processing Properties	230 - 250 Å°C Metric	446 - 482 Å°F English	Comments
Mold Temperature	40.0 - 80.0 Å°C	104 - 176 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	0.345 - 0.689 MPa	50.0 - 100 psi	
Fill Speed	300 - 600 mm/sec	11.8 - 23.6 in/sec	Peripheral Screw Speed

Descriptive Properties	Value	Comments
Injection Speed (cm ³ /sec)	50 - 150 cm ³ /sec	

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