

Solvay Technyl[®] A20V25 25% Glass Filled, V-0 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

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-A20V25-25-Glass-Filled-V-0-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.75 %	0.75 %	24 Hr.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	135 MPa	19600 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	8.62 GPa	1250 ksi	ASTM D638
Flexural Strength	205 MPa	29700 psi	ASTM D790
Flexural Modulus	7.52 GPa	1090 ksi	ASTM D790
Izod Impact, Notched	0.731 J/cm	1.37 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	255 Â°C	491 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Feed Temperature	270 - 275 Â°C	518 - 527 Â°F	
Middle Barrel Temperature	275 - 280 Â°C	527 - 536 Â°F	Compression Zone
Front Barrel Temperature	279 - 285 Â°C	535 - 545 Â°F	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 280 Å°C	516 - 536 Å°F	
Mold Temperature	60.0 - 90.0 Å°C	140 - 194 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 - 300 mm/sec	7.87 - 11.8 in/sec	Peripheral Screw Speed

Descriptive Properties	Value	Comments
Injection Speed (cm3/sec)	80 - 120 cm ³ /sec	

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