

Solvay Technyl® A 216 V30 Nylon 66, 30% Glass Fiber, EH50

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Polyamide PA66, reinforced with 30% of glass fiber, for injection molding. Technyl A 216 V30 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. This grade is used in automotive industry, manufacture of components of electrical tools, and transport and building. This product is available in natural, black and in a wide range of standard colors. Information provided by Rhodia; Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Technyl-A-216-V30-Nylon-66-30-Glass-Fiber-EH50.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183-A
Water Absorption	0.80 %	0.80 %	(Beginning Dry) 24 hours in water 23°C. ISO 62
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	RHODIA-EP
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	RHODIA-EP

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	ISO 527
Tensile Strength, Yield	135 MPa	19600 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	ISO 527
Flexural Yield Strength	176 MPa	25500 psi	ISO 178
Flexural Modulus	5.90 GPa	856 ksi	ISO 178
Izod Impact Resistance	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/EU-1993
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ISO 3146-C

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	IEC 93

Surface Resistance Electrical Properties	1.00e+12 ohm Metric	1.00e+12 ohm English	IEC 93 Comments
Dielectric Constant	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243-1
Dissipation Factor	0.11 @Frequency 1e+6 Hz	0.11 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	
Middle Barrel Temperature	270 - 280 Â°C	518 - 536 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	
Nozzle Temperature	271 - 279 Â°C	520 - 535 Â°F	
Melt Temperature	270 - 300 Â°C	518 - 572 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 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 - 300 mm/sec	7.87 - 11.8 in/sec	Peripheral Screw Speed

Descriptive Properties	Value	Comments
Injection Speed (cm3/sec)	120 - 170 cm ³ /sec	

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