

Solvay Technyl® A 216 V30 Nylon 66, 30% Glass Fiber, EH0

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. Glow wire test thick. 1,6 mm, IEC 695-2-1, is 650°C. Glow wire test thick. 3,2 mm, IEC 695-2-1, is 750°C. Glow wire test thick. 1,6 mm: no flame, IEC 695-2-1, is 650°C. 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-EH0.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 %	24 hours in water at 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	190 MPa	27600 psi	ISO 527
Tensile Strength, Yield	190 MPa	27600 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527
Flexural Yield Strength	260 MPa	37700 psi	ISO 178
Flexural Modulus	8.40 GPa	1220 ksi	ISO 178
Izod Impact Resistance	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/EU-1993
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C @Temperature 23.0 - 85.0 °C	13.9 µin/in-°F @Temperature 73.4 - 185 °F	ASTM E831
Melting Point	263 °C	505 °F	ISO 3146-C

Thermal Properties	Metric	English	Comments
Tensile strength at 1.8 MPa (264 psi)	133 °C	270 °F	ISO 18-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	ISO 1210/UL 94
Oxygen Index	23 %	23 %	ISO 4589

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	6.00e+14 ohm	6.00e+14 ohm	IEC 93
Dielectric Constant	3.75 @Frequency 1e+6 Hz	3.75 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 243-1
Dissipation Factor	0.010 @Frequency 1e+6 Hz	0.010 @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	120 - 170 cm³/sec	

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