

Solvay Technyl® C 216 Nylon 6, 30% Glass Fiber, EH50

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Polyamide PA6, reinforced with 30% of glass fiber, for injection molding. It has good mechanical properties. It is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. It is used in the automotive industry and electrical sectors. This product is available in colors on request. Information provided by Rhodia; Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Technyl-C-216-Nylon-6-30-Glass-Fiber-EH50.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183-A
Water Absorption	0.95 %	0.95 %	(Beginning Dry) 24 hours in water 23°C. ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	ISO 527
Elongation at Break	4.5 %	4.5 %	ISO 527
Tensile Modulus	6.20 GPa	899 ksi	ISO 527
Flexural Yield Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
Izod Impact Resistance	2.40 J/cm ²	11.4 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	10.8 J/cm ²	51.4 ft-lb/in ²	ISO 179/1EA-1993
Charpy Impact, Notched	3.15 J/cm ²	15.0 ft-lb/in ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 3146-C

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	IEC 93
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 93
Dielectric Constant	4.5 @Frequency 1e+6 Hz	4.5 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	22.0 kV/mm	559 kV/in	IEC 243-1

Electrical Properties Dissipation Factor	^{0.000} Metric	^{0.000} English	Comments IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	475 V	475 V	IEC 112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	225 - 230 Â°C	437 - 446 Â°F	
Middle Barrel Temperature	230 - 240 Â°C	446 - 464 Â°F	
Front Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	

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