

Solvay Technyl® A 246M Nylon 66, Impact Grade, EH50

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Unreinforced and modified polyamide 66, with improved impact resistance, heat stabilized, for injection molding. Technyl A 246m offers an excellent notched impact resistance at low temperatures making it suitable for sports and leisure applications. It is suitable for shoe soles, ski components, ski and surf bindings, as well as toy applications, such as the bumper of a remote-controlled car. This product is available in natural, white and black. 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-246M-Nylon-66-Impact-Grade-EH50.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183-A
Water Absorption	1.05 %	1.05 %	(Beginning Dry) 24 hours in water 23°C. ISO 62
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	RHODIA-EP
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	RHODIA-EP

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	ISO 527
Elongation at Break	210 %	210 %	ISO 527
Elongation at Yield	210 %	210 %	ISO 527
Tensile Modulus	0.600 GPa	87.0 ksi	ISO 527
Flexural Yield Strength	27.0 MPa	3920 psi	ISO 178
Flexural Modulus	0.700 GPa	102 ksi	ISO 178
Izod Impact Resistance	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179/EU-1993
Charpy Impact, Notched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179/IEA-1993

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

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+13 ohm-cm Metric	1.00e+13 ohm-cm English	IEC 93 Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 93
Dielectric Constant	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	38.0 kV/mm	965 kV/in	IEC 243-1
Dissipation Factor	0.060 @Frequency 1e+6 Hz	0.060 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	
Middle Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	
Front Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 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	0.345 - 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 (cm3/sec)	80 - 150 cm ³ /sec	

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