

Solvay Technyl® B 50H1 Nylon 66/6, Flame Retardant, EH0

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

Material Notes:

Flame retardant copolyamide 66/6, unreinforced, heat stabilized, for injection molding. This phosphorus and halogen free flame retardant grade, UL 94 VO (0.4 mm), offers excellent filling qualities and with good stiffness. It is particularly suitable for molding insulating parts for electrical components on board materials for use in tunnels, satisfying specification n°3 of the standard "Fire and Smoke" NF-F16102, and on components for electrical connections : junction blocks, terminal blocks, connectors. This product is available in natural, black, and in colors on request. Glow wire test thick. 1,6 mm, IEC 695-2-1, is 960°C. Glow wire test thick. 1,6 mm: no flame, IEC 695-2-1, is 650°C. Glow wire test thick. 0,8 mm: c

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Technyl-B-50H1-Nylon-666-Flame-Retardant-EH0.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183-A
Water Absorption	1.1 %	1.1 %	24 hours in water at 23°C; ISO 62.
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	RHODIA-EP
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	RHODIA-EP

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	80.0 MPa	11600 psi	ISO 527
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Elongation at Yield	5.0 %	5.0 %	ISO 527
Tensile Modulus	3.70 GPa	537 ksi	ISO 527
Flexural Yield Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
Izod Impact Resistance	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1EA-1993
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 Åµm/m-Å°C	36.1 Åµin/in-Å°F	ASTM E831

Thermal Properties	Metric @Temperature 23.0 - 85.0 Â°C	English @Temperature 73.4 - 189 Â°F	Comments
Melting Point	242 Â°C	468 Â°F	ISO 3146-C
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ISO 75-2
Flammability, UL94	V-0	V-0	ISO 1210/UL 94
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	ISO 1210/UL 94
	V-0	V-0	ISO 1210/UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	37 %	37 %	ISO 4589

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 93
Dielectric Constant	3.6	3.6	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 243-1
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	
Middle Barrel Temperature	245 - 255 Â°C	473 - 491 Â°F	
Front Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	

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