

Solvay Technyl® B 50H1 Nylon 66/6, Flame Retardant, EH50

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 nÂ³ 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: no flame, IEC 695-2-1, is 650Â°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-EH50.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/inÂ³	ISO 1183-A
Water Absorption	1.1 %	1.1 %	(Beginning Dry) 24 hours in water 23Â°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	45.0 MPa	6530 psi	ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527
Elongation at Break	100 %	100 %	ISO 527
Elongation at Yield	13 %	13 %	ISO 527
Tensile Modulus	2.20 GPa	319 ksi	ISO 527
Flexural Yield Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact Resistance	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179/EU-1993
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179/1EA-1993

Thermal Properties	Metric	English	Comments
Melting Point	242 Â°C	468 Â°F	ISO 3146-C

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 93
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	0.060 @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	240 - 250 Å°C	464 - 482 Å°F	
Middle Barrel Temperature	245 - 255 Å°C	473 - 491 Å°F	
Front Barrel Temperature	250 - 260 Å°C	482 - 500 Å°F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China