

Solvay TECHNYL® A 50H1 PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Flame retardant polyamide 66, unreinforced, heat stabilized, for injection molding. Available in: Asia Pacific, Europe, Latin America and North America Product Applications: This phosphorus and halogen free flame retardant grade, offers excellent filling qualities combined with good stiffness. It is particularly suitable for molding insulating parts for electrical components: Components for electrical connections: junction blocks, terminal blocks, and connectors. This product is available in natural. Other colors can be provided upon 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-A-50H1-PA66-DRY.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183/A
Water Absorption	0.88 % @Temperature 23.0 °C, Time 86400 sec	0.88 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0095 cm/cm	0.0095 in/in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527 Type 1A
Tensile Strength, Yield	86.0 MPa	12500 psi	ISO 527 type 1 A
Elongation at Break	21 %	21 %	ISO 527 Type 1A
Elongation at Yield	4.22 %	4.22 %	ISO 527 type 1 A
Tensile Modulus	3.80 GPa	551 ksi	ISO 527 Type 1A
Flexural Strength	137 MPa	19900 psi	ISO 178
Flexural Modulus	3.70 GPa	537 ksi	ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	13.0 J/cm ²	61.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.320 J/cm ²	1.52 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	263 Â°C Metric	505 Â°F English	ISO 11357 Comments
Deflection Temperature at 0.46 MPa (66 psi)	237 Â°C	459 Â°F	ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ISO 75/Af
Flammability, UL94	V-0	V-0	1210
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	V-0	V-0	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	725 Â°C	1340 Â°F	ignition temperature; ISO 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	960 Â°C	1760 Â°F	ISO 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 Â°C	1760 Â°F	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	960 Â°C	1760 Â°F	ISO 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	60 V	60 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	265 - 275 Â°C	509 - 527 Â°F	
Front Barrel Temperature	270 - 280 Â°C	518 - 536 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	75Å°C	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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