

Solvay Technyl® A 60G1 V25 25% Glass Reinforced Nylon 66, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

This Red Phosphorous and Halogen free flame retardant grade, combines excellent all-round mechanical properties with outstanding flame retardancy (UL 5VA at 1.6mm) and electrical performance. This product is ideally suited for industrial controls and power distribution applications such as MCBs and contactors. The long term thermal performance of this grade also make it ideal for underhood auto applications where it can withstand temperatures of 160°C for over 6000hrs. 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-60G1-V25-25-Glass-Reinforced-Nylon-66-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183-A
Water Absorption	0.83 %	0.83 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	ISO 294-4
	0.0090 cm/cm	0.0090 in/in	Rhodia EP test

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	92.0 MPa	13300 psi	Conditioned; ISO 527 Type 1 A
	147 MPa	21300 psi	DAM; ISO 527 Type 1 A
Elongation at Break	3.1 %	3.1 %	DAM; ISO 527 Type 1 A
	5.2 %	5.2 %	Conditioned; ISO 527 Type 1 A
Tensile Modulus	6.20 GPa	899 ksi	Conditioned; ISO 527 Type 1 A
	9.50 GPa	1380 ksi	DAM; ISO 527 Type 1 A
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	DAM; ISO 179/1eU
	8.50 J/cm ²	40.5 ft-lb/in ²	Conditioned; ISO 179/1eU
	6.00 J/cm ²	28.6 ft-lb/in ²	DAM; ISO 179/fU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.760 J/cm ²	3.62 ft-lb/in ²	DAM; ISO 179/1eA

Mechanical Properties	0.910 J/cm ² Metric	4.33 ft-lb/in ² English	Conditioned; ISO 179/1eA Comments
Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	DAM; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	116 Â°C	240 Â°F	DAM; ISO 75/ Af
Flammability, UL94	V-0	V-0	DAM; ISO 1210/UL94
	@Thickness 0.787 mm	@Thickness 0.0310 in	
	V-0	V-0	DAM; ISO 1210/UL94
	@Thickness 3.17 mm	@Thickness 0.125 in	
Oxygen Index	33 %	33 %	DAM; ISO 4589
Glow Wire Test	775 Â°C	1430 Â°F	Ignition Temperature; DAM; IEC 60695-2-13
	@Thickness 3.20 mm	@Thickness 0.126 in	
	775 Â°C	1430 Â°F	Ignition Temperature; DAM; IEC 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	960 Â°C	1760 Â°F	Flammability Index; DAM; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 Â°C	1760 Â°F	Flammability Index; DAM; IEC 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	960 Â°C	1760 Â°F	Flammability Index; DAM; IEC 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	Conditioned; IEC 60093
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DAM; IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	Conditioned; IEC 60093
Dielectric Constant	3.7	3.7	DAM; IEC 60250
	4.5	4.5	Conditioned; IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	DAM; IEC 60243
Comparative Tracking Index	600 V	600 V	Conditioned; IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	
Middle Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	
Front Barrel Temperature	260 - 270 Â°C	500 - 518 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 %	

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