

Solvay Technyl Star,ç S 60G1 V30 30% Glass Reinforced Nylon 6, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

This Halogen free flame retardant grade, based on high fluidity Technyl Star, combines excellent all-round mechanical properties with outstanding flame retardancy and electrical performance. This product is ideally suited for applications such as MCBs and contactors as well as being able to be used in many varied thin wall applications where its high flow polymer base enables it to achieve a UL94 V-0 rating down to a 0.4mm wall thickness. This product is available in a number of different colors including the standard Natural, light and dark Grey and Black. Specific colors and laser marking grades optimized for YAG and UV laser types are also available upon request. For all products containing Flame additives Rhodia recommends the use of high Chromium, low Carbon coating for the steels (example CR19% C1.9%). The use of this steel can help to prevent corrosion, extend the equipment lifetime and allow greater parameter flexibility. Information provided by Rhodia; Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Technyl-Star-S-60G1-V30-30-Glass-Reinforced-Nylon-6-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183-A
Water Absorption	0.90 %	0.90 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Rhodia EP test
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	Rhodia EP test

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.0 MPa	14100 psi	Conditioned; ISO 527 Type 1 A
	147 MPa	21300 psi	DAM; ISO 527 Type 1 A
Elongation at Break	2.28 %	2.28 %	DAM; ISO 527 Type 1 A
	5.27 %	5.27 %	Conditioned; ISO 527 Type 1 A
Tensile Modulus	7.01 GPa	1020 ksi	Conditioned; ISO 527 Type 1 A
	11.76 GPa	1706 ksi	DAM; ISO 527 Type 1 A
Flexural Strength	169 MPa	24500 psi	Conditioned; ISO 178
	243 MPa	35200 psi	DAM; ISO 178
Flexural Modulus	6.90 GPa	1000 ksi	Conditioned; ISO 178
	10.68 GPa	1549 ksi	DAM; ISO 178

Mechanical Properties (ISO)	Metric J/m ²	English lb/in ²	Comments 80/A
	12.0 kJ/m ²	5.71 ft-lb/in ²	Conditioned; ISO 180/A
Izod Impact, Unnotched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	DAM; ISO 180/1U
	63.0 kJ/m ²	30.0 ft-lb/in ²	Conditioned; ISO 180/1U
Charpy Impact Unnotched	6.70 J/cm ²	31.9 ft-lb/in ²	DAM; ISO 179/1eU
	6.90 J/cm ²	32.8 ft-lb/in ²	Conditioned; ISO 179/1eU
Charpy Impact, Notched	0.960 J/cm ²	4.57 ft-lb/in ²	DAM; ISO 179/1eA
	1.30 J/cm ²	6.19 ft-lb/in ²	Conditioned; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75/af
Flammability, UL94	V-0	V-0	DAM; ISO 1210/UL94
	@Thickness 0.381 mm	@Thickness 0.0150 in	
	V-0	V-0	DAM; ISO 1210/UL94
	@Thickness 3.17 mm	@Thickness 0.125 in	
Oxygen Index	35 %	35 %	DAM; ISO 4589
Glow Wire Test	775 Â°C	1430 Â°F	Glow Wire Ignition Temp; DAM; IEC 60695-2-13
	@Thickness 20.3 mm	@Thickness 0.800 in	
	800 Â°C	1470 Â°F	Glow Wire Ignition Temp; DAM; IEC 60695-2-13
	@Thickness 40.6 mm	@Thickness 1.60 in	
	960 Â°C	1760 Â°F	Glow Wire flammability Index; DAM; IEC 60695-2-12
	@Thickness 20.3 mm	@Thickness 0.800 in	
	960 Â°C	1760 Â°F	Glow Wire flammability Index; DAM; IEC 60695-2-12
	@Thickness 40.6 mm	@Thickness 1.60 in	
	960 Â°C	1760 Â°F	Glow Wire flammability Index; DAM; IEC 60695-2-12
	@Thickness 81.3 mm	@Thickness 3.20 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.10e+14 ohm	1.10e+14 ohm	DAM; IEC 60093

Electrical Properties	Metric	English	Comments
	4.35	4.35	Conditioned; IEC 60250
Dielectric Strength	28.5 kV/mm	724 kV/in	Conditioned; IEC 60243
	39.8 kV/mm	1010 kV/in	DAM; IEC 60243
Dissipation Factor	0.080	0.080	Conditioned; IEC 60250
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 225 Å°C	428 - 437 Å°F	
Middle Barrel Temperature	225 - 235 Å°C	437 - 455 Å°F	
Front Barrel Temperature	235 - 245 Å°C	455 - 473 Å°F	
Mold Temperature	80.0 Å°C	176 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
Moisture Content	<= 0.15 %	<= 0.15 %	

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