

Solvay TECHNYLÂ® A 60 G1 V30 PA66, 30% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% Glass Fiber Filled

Material Notes:

Description: Flame retardant Polyamide PA66 reinforced with 30% of glass fiber, for injection molding. Available in: Asia Pacific, Europe, Latin America and North America
 Product Applications: 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 under-the-bonnet Auto applications where it can withstand temperatures of 160Â°C for over 6000hrs. This product is available in Natural, Grey and Black. Specific colors and Laser Marking grades optimized for YAG and UV laser types are also available 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-60-G1-V30-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/inÂ³	ISO 1183/A
Water Absorption	0.73 %	0.73 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527 Type 1A
Elongation at Break	2.3 %	2.3 %	ISO 527 Type 1A
Tensile Modulus	11.7 GPa	1700 ksi	ISO 527 Type 1A
Charpy Impact Unnotched	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	0.670 J/cmÂ²	3.19 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C	473 Â°F	ISO 75/ Af
	145 Â°C	293 Â°F	

UL RTI Electrical Thermal Properties	Metric @Thickness 2000 mm	English @Thickness 787 in	Comments
	160 Â°C @Thickness 6000 mm	320 Â°F @Thickness 236 in	
UL RTI, Mechanical with Impact	140 Â°C @Time 7.20e+7 sec	284 Â°F @Time 20000 hour	
	160 Â°C @Time 2.16e+7 sec	320 Â°F @Time 6000 hour	
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	1210
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	1210
	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	1210
Oxygen Index	33 %	33 %	ISO 4589
Glow Wire Test	775 Â°C @Thickness 0.800 mm	1430 Â°F @Thickness 0.0315 in	ignition temperature; ISO 60695-2-13
	775 Â°C @Thickness 1.60 mm	1430 Â°F @Thickness 0.0630 in	ignition temperature; ISO 60695-2-13
	960 Â°C @Thickness 0.800 mm	1760 Â°F @Thickness 0.0315 in	ISO 60695-2-12
	960 Â°C @Thickness 1.60 mm	1760 Â°F @Thickness 0.0630 in	ISO 60695-2-12
	960 Â°C @Thickness 3.20 mm	1760 Â°F @Thickness 0.126 in	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 275 Â°C	500 - 527 Â°F	
Front Barrel Temperature	280 - 285 Â°C	536 - 545 Â°F	

Mold Temperature Processing Properties	60.0 - 80.0 Â°C Metric	140 - 176 Â°F English	Comments
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	275-280Â°C	

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