Solvay TECHNYLÂ® A 30 H1 V30 PA66, 30% glass fiber, DRY

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

Material Notes:

Description: TECHNYLÂ® A 30H1 V30 is a brominated flame retardant polyamide 66, reinforced with 30% of glass fiber, for injection molding. This product is available in natural & black color.Benefits: This product offers excellent flame retardancy properties (UL 94, GWIT) combined with excellent processing, mechanical and electrical performance. Available in: Asia Pacific, Europe, Latin America and North AmericaRegulations compliance: Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC. This grade complies with RoHS directive 2002/95/EC. Unless specified, this grade is not suitable for food contact, medical devices or toy applications.Applications: This product is ideally suited for appliance and industrial control applications such as switches, timers and contactors.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-30-H1-V30-PA66-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/inÂ³	ISO 1183/A
Water Absorption	0.80 % @Temperature 23.0 Â°C, Time 86400 sec	0.80 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Viscosity	70 cP @Shear Rate 100 1/s, Temperature 300 Â°C	70 cP @Shear Rate 100 1/s, Temperature 572 Â°F	
	105 cP @Shear Rate 100 1/s, Temperature 290 Â°C	105 cP @Shear Rate 100 1/s, Temperature 554 Â°F	
	120 cP @Shear Rate 100 1/s, Temperature 280 Â°C	120 cP @Shear Rate 100 1/s, Temperature 536 Â°F	
Linear Mold Shrinkage	0.0063 cm/cm	0.0063 in/in	Isotropy
Linear Mold Shrinkage, Flow	>= 0.0060 cm/cm	>= 0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0095 cm/cm	0.0095 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527 Type 1A
	140 MPa	20300 psi	ASTM D638
	45.0 MPa	6530 psi	

Mechanical Properties	Metric	English	Comments
Tensile Stress	@Strain 0.500 %	@Strain 0.500 %	
	75.0 MPa @Strain 1.50 %	10900 psi @Strain 1.50 %	
	80.0 MPa @Strain 1.00 %	11600 psi @Strain 1.00 %	
Elongation at Break	2.2 %	2.2 %	ISO 527 Type 1A
	2.5 %	2.5 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527 Type 1A
Flexural Strength	200 MPa	29000 psi	ISO 178
	200 MPa	29000 psi	ASTM D790
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
	9.50 GPa	1380 ksi	ASTM D790
Izod Impact, Notched	1.15 J/cm	2.15 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	4.20 J/cmÂ²	20.0 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	0.950 J/cmÂ²	4.52 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)	226 Â°C	439 Â°F	ISO 75/Af
UL RTI, Electrical	130 Â°C @Thickness 0.750 mm	266 Â°F @Thickness 0.0295 in	
	130 Â°C @Thickness 1.50 mm	266 Â°F @Thickness 0.0591 in	
	130 Â°C @Thickness 3.00 mm	266 Â°F @Thickness 0.118 in	
UL RTI, Mechanical with Impact	90.0 Â°C @Thickness 0.750 mm	194 Â°F @Thickness 0.0295 in	
	100 Â°C	212 Â°F	

Thermal Properties	Metric	English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	100 Â°C @Thickness 3.00 mm	212 Â°F @Thickness 0.118 in	
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	31 %	31 %	ISO 4589
Glow Wire Test	800 Â°C @Thickness 0.800 mm	1470 Â°F @Thickness 0.0315 in	ignition temperature; ISO 60695-2-13
	825 Â°C @Thickness 1.60 mm	1520 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
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.3	3.3	IEC 60250
Dielectric Strength	42.0 kV/mm	1070 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	400 V	400 V	Solution B; IEC 60112
	450 V	450 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments

Processing Properties	Metric	English	Comments
Feed Temperature	270 - 280 Â°C	518 - 536 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	
Mold Temperature	70.0 - 100 Â°C	158 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	275-285Â°C	
Fire and smoke F index	I3/F3	NF F 16 101
Mixing Zone	280-290Â°C	

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