

Solvay TECHNYL® C 30H1 V30 Natural/F PA6, 30% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Description: Flame retardant polyamide PA6, reinforced with 30% of glass fiber, for injection molding. Available in: Asia Pacific, Europe, Latin America and North America Product Applications: This grade has good mechanical properties, flame retardant rating UL94 V0 and glow-wire at 960°C. It is specially suitable for pieces such as: switches, timers, etc. This product is available in Natural. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-C-30H1-V30-NaturalF-PA6-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	ISO 1183/A
Water Absorption	0.95 % @Temperature 23.0 °C, Time 86400 sec	0.95 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ISO 527 Type 1A
Elongation at Break	1.8 %	1.8 %	ISO 527 Type 1A
Tensile Modulus	11.4 GPa	1650 ksi	ISO 527 Type 1A
Charpy Impact Unnotched	3.70 J/cm ²	17.6 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	197 °C	387 °F	ISO 75/Af
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	1210
	V-0	V-0	1210

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	V-0	V-0	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	825 Â°C	1520 Â°F	ignition temperature; ISO 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	850 Â°C	1560 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	41.0 kV/mm	1040 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	450 V	450 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	230 - 240 Â°C	446 - 464 Â°F	
Front Barrel Temperature	240 - 255 Â°C	464 - 491 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	240-250Â°C	

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