Solvay TECHNYLÂ® C 50 H2 PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Description: TECHNYLÂ® C 50H2 is a unreinforced melamine cyanurate flame retarded polyamide 6. This product is heat stabilized and can be used for injection molding and extrusion processes. This product is available in natural & black, and in other colors upon request.Benefits: This product, UL94 VO @ 0,4mm, offers excellent moldability together with good stiffness.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: Connectivity- junction blocks, terminal blocks, connectorsâ€¦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-50-H2-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/inÂ³	ISO 1183/A
Water Absorption	1.1 % @Temperature 23.0 Â°C, Time 86400 sec	1.1 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527 Type 1A
	80.0 MPa	11600 psi	ASTM D638
Tensile Strength, Yield	75.0 MPa	10900 psi	ISO 527 type 1 A
	80.0 MPa	11600 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
	25 %	25 %	ISO 527 Type 1A
Elongation at Yield	3.5 %	3.5 %	ISO 527 type 1 A
Tensile Modulus	3.50 GPa	508 ksi	ISO 527 Type 1A
Flexural Strength	115 MPa	16700 psi	ASTM D790
	200 MPa	29000 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	3.15 GPa	457 ksi	ISO 178
	3.50 GPa	508 ksi	ASTM D790
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	3.50 kJ/mÂ²	1.67 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	18.0 J/cmÂ²	85.7 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	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)	75.0 Â°C	167 Â°F	ISO 75/Af
Flammability, UL94	V-0 @Thickness 0.380 mm	V-0 @Thickness 0.0150 in	1210
	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	36 %	36 %	ISO 4589
Glow Wire Test	700 Â°C @Thickness 0.800 mm	1290 Â°F @Thickness 0.0315 in	ignition temperature; ISO 60695-2-13
	700 Â°C @Thickness 1.60 mm	1290 Â°F @Thickness 0.0630 in	ignition temperature; ISO 60695-2-13
	700 Â°C @Thickness 3.20 mm	1290 Â°F @Thickness 0.126 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	1760 Â°F	ISO 60695-2-12

Thermal Properties	Metric @Thickness 3.20 mm	English @Thickness 0.126 in	Comments

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	475 V	475 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	230 - 235 Â°C	446 - 455 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	235-245Â°C	
Fire and smoke F index	I2/F3	NF F 16 101
Mixing Zone	245-250Â°C	

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