

Solvay TECHNYLÂ® A 20 V35 PA66, 35% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

Description: Flame retardant polyamide 66, reinforced with 35% of glass fiber, for injection molding. Available in: Asia Pacific, Europe, Latin America and North America. Product Applications: This phosphorous flame retardant grade, UL 94 V0 (0.8 mm), offers excellent filling qualities and with good mechanical properties. This grade is suitable for molding insulating parts for electrical devices: connectors, switches, bobbins coil formers and thin parts under stress. This product is available in black. 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-20-V35-PA66-35-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/inÂ³	ISO 1183/A
Water Absorption	0.60 %	0.60 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	ISO 527 Type 1A
Tensile Strength, Yield	190 MPa	27600 psi	ISO 527 type 1 A
Elongation at Break	2.0 %	2.0 %	ISO 527 Type 1A
Elongation at Yield	2.0 %	2.0 %	ISO 527 type 1 A
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527 Type 1A
Flexural Strength	260 MPa	37700 psi	ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	ISO 180/1A
Charpy Impact Unnotched	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	ISO 11357
Flammability, UL94	V-0	V-0	ISO 1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	ISO 1210
Oxygen Index	30.5 %	30.5 %	ISO 4589
Glow Wire Test	960 Â°C	1760 Â°F	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	325 V	325 V	Solution B; IEC 60112
	400 V	400 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	275 - 280 Â°C	527 - 536 Â°F	
Front Barrel Temperature	290 - 295 Â°C	554 - 563 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	285-290Â°C	

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