

## Solvay TECHNYL® A 31T1 MZ40 PA66, 40% mineral fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

### Material Notes:

Description: Flame retardant polyamide PA66, 40% mineral filled, heat stabilized, for injection molding. Available in: Asia Pacific, Europe, Latin America and North America Product Applications: This flame retardant material offers very good dimensional stability and excellent Glow wire performance. This product is particularly recommended for electrical parts such as: low voltage distribution, protection systems, mini circuit breakers, fuse holders and terminal blocks. This product is available in grey. 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-31T1-MZ40-PA66-40-mineral-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-31T1-MZ40-PA66-40-mineral-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in <sup>3</sup>	ISO 1183/A
Water Absorption	0.43 %	0.43 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	77.0 MPa	11200 psi	ISO 527 Type 1A
Elongation at Break	1.7 %	1.7 %	ISO 527 Type 1A
Tensile Modulus	6.90 GPa	1000 ksi	ISO 527 Type 1A
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.220 J/cm <sup>2</sup>	1.05 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ISO 75/Af
Flammability, UL94	V-2	V-2	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	46.5 %	46.5 %	ISO 4589
Glow Wire Test	960 °C	1760 °F	ISO 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	ISO 60695-2-12

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	960 °C	1760 °F	ISO 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Comparative Tracking Index	400 V	400 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	270 - 275 °C	518 - 527 °F	
Front Barrel Temperature	285 - 290 °C	545 - 554 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	285-290°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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