

Solvay TECHNYL® C 52G3 MZ25 PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Description: Flame retardant polyamide PA6 reinforced with mineral filler, for injection molding. Available in: Asia Pacific, Europe, Latin America and North America Product Applications: This phosphorus and halogen free flame retardant grade is particularly suitable for equipment with robust glow wire resistance such as MCB housings. This grade is available in grey color. 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-52G3-MZ25-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183/A
Water Absorption	1.0 % @Temperature 23.0 °C, Time 86400 sec	1.0 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527 Type 1A
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
Tensile Modulus	6.00 GPa	870 ksi	ISO 527 Type 1A
Flexural Strength	136 MPa	19700 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ²	1.43 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)	145 °C	293 °F	ISO 75/Af
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	1210

Thermal Properties	V-2 Metric	V-2 English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	31 %	31 %	ISO 4589
Glow Wire Test	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
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 230 Â°C	428 - 446 Â°F	
Front Barrel Temperature	245 - 255 Â°C	473 - 491 Â°F	
Mold Temperature	80.0 Â°C	176 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	230-240Â°C	

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