

Solvay TECHNYL® 52G1MX 25 Grey 7035 PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Description: Flame retardant polyamide PA6 reinforced with mineral filler for injection molding, also suitable for thin wall parts. 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-52G1MX-25-Grey-7035-PA6-DRY.php

Physical Properties	Metric	English	Comments
Water Absorption	1.1 %	1.1 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0075 cm/cm	0.0075 in/in	
Linear Mold Shrinkage, Transverse	0.0112 cm/cm	0.0112 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527 Type 1A
Elongation at Break	2.0 %	2.0 %	ISO 527 Type 1A
Tensile Modulus	6.13 GPa	889 ksi	ISO 527 Type 1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	ISO 180/1eU
Charpy Impact Unnotched	3.00 J/cm ²	14.3 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	220 °C	428 °F	ISO 11357
Flammability, UL94	V-2	V-2	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
	V-2	V-2	1210
@Thickness 1.60 mm	@Thickness 0.0630 in		
	V-2	V-2	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Thermal Properties	Metric	English	Comments
Glow Wire Test	@Thickness 0.800 mm	@Thickness 0.0315 in	ignition temperature; ISO 60695-2-13
	725 Â°C	1340 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 3.20 mm	@Thickness 0.126 in	
	960 Â°C	1760 Â°F	ISO 60695-2-12
	@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	

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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