

Solvay TECHNYLÂ® C 52G4 MZ25 PA6, 25% mineral filler, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Mineral Filled

Material Notes:

Description: TECHNYLÂ® C 52G4 MZ25 is a 25% mineral reinforced melamine cyanurate flame retarded polyamide 6. This product is heat stabilized and is suitable for injection molding. This product is available in both dark and light electrical Grey, other colors can be made upon request. Benefits: The product offers a robust glow wire resistance, combined with enhanced processing behavior suitable for thin wall parts. Available in: Asia Pacific, Europe, Latin America and North America. Regulations 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: This product is ideally suited for power distribution applications such as MCB housing. 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-52G4-MZ25-PA6-25-mineral-filler-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/inÂ³	ISO 1183/A
Water Absorption	1.0 % @Temperature 23.0 Â°C, Time 86400 sec	1.0 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 275 Â°C	20 g/10 min @Load 4.76 lb, Temperature 527 Â°F	ISO/FDIS 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527 Type 1A
	75.0 MPa	10900 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ISO 527 Type 1A
	3.0 %	3.0 %	ASTM D638
Tensile Modulus	6.40 GPa	928 ksi	ISO 527 Type 1A
Flexural Strength	130 MPa	18900 psi	ASTM D790
	136 MPa	19700 psi	ISO 178

Flexural Modulus Mechanical Properties	0.600 GPa Metric	87.0 ksi English	ISO 178 Comments
	5.70 GPa	827 ksi	ASTM D790
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM D256
Charpy Impact Unnotched	4.70 J/cm ²	22.4 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 Å°C	432 Å°F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	205 Å°C	401 Å°F	ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	130 Å°C	266 Å°F	ISO 75/ Af
	145 Å°C	293 Å°F	ASTM D648
Flammability, UL94	V-2	V-2	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	1210
	V-2	V-2	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	31 %	31 %	ISO 4589
Glow Wire Test	960 Å°C	1760 Å°F	ISO 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 Å°C	1760 Å°F	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	252 V	252 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	230 - 235 Å°C	446 - 455 Å°F	
Mold Temperature	70.0 - 100 Å°C	158 - 212 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	

Moisture Content Processing Properties	$\leq 0.20\%$ Metric	$\leq 0.20\%$ English	Comments
Descriptive Properties		Value	Comments
Compression Zone		230-240 $^{\circ}$ C	
Mixing Zone		245-250 $^{\circ}$ C	

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