TECHNYL® C 52G2 MV25 GREY G 1783 CF

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 52G2 MV25 Grey G 1783 CF is a Non-phosphorous and Non-halogenated flame retardant polyamide 6, reinforced with 25% of mixed glass fibre and mineral filler, heat stabilized, for injection moulding. This flame retardant grade offers a low smoke toxicity, a high glowwire resistance and good all round mechanical properties

General Information						
UL YellowCard		E44716-235532				
Filler / Reinforcement		Glass \mineral, 25% filler by weight				
Additive		heat stabilizer				
		Flame retardancy				
Features		Anti-arc				
		Phosphorus content, low (to none)				
		Halogen-free				
Uses		Electrical/Electronic Applications				
Agency Ratings		EC 1907/2006 (REACH)				
		UL QMFZ2				
Appearance		Grey				
		Natural color				
Forms		Particle				
Processing Method		Injection molding				
Resin ID (ISO 1043)		PA6-(MD+GF)25 FR(30)				
Physical	Dry	Conditioned	Unit	Test Method		
Density	1.37		g/cm³	ISO 1183/A		
Water Absorption (23°C, 24 hr)	1.1		%	ISO 62		
Mechanical	Dry	Conditioned	Unit	Test Method		
Tensile Modulus (23°C)	8100	3500	MPa	ISO 527-2/1A		
Tensile Stress (Break, 23°C)	105	53.0	MPa	ISO 527-2/1A		
Tensile Strain (Break, 23°C)	2.4		%	ISO 527-2		
Impact	Dry	Conditioned	Unit	Test Method		
Charpy Notched Impact	,					
Strength (23°C)	4.0	7.0	kJ/m²	ISO 179/1eA		
Charpy Unnotched Impact						
Strength (23°C)	43	75	kJ/m²	ISO 179/1eU		

Notched Izod Impact				
(23°C)	4.6	8.2	kJ/m²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	215		°C	ISO 75-2/Bf
1.8 MPa, not annealed	190		°C	ISO 75-2/Af
Melting Temperature	222		°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	500		V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.8 mm	V-2			UL 94
1.6 mm	V-2			UL 94
3.2 mm	V-2			UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.6 mm	960		°C	IEC 60695-2-12
3.2 mm	960		°C	IEC 60695-2-12
Oxygen Index	31		%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 - 235		°C	
Middle Temperature	235 - 240		°C	
Front Temperature	235 - 245		°C	
Mold Temperature	60 - 90		°C	
Injection instructions				

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4hInjection Advice:

All reinforced flame retardant compounds generate some level of abrasion/corrosion to the steel processing equipment.

These issues can be worsened by using incorrect processing conditions (temperatures, residence time, moisture level ...) during the moulding process. Therefore, Solvay recommends to use the advised processing conditions detailed in this technical data sheet. For equipment that comes into contact with molten flame retarded compounds, Solvay advises to use a steel containing high chromium & high carbon content (minimum concentration of 16% Chromium) to prevent corrosion and abrasion. For the correct reference of steel associated to flame retardant compounds processing, please refer to your equipment manufacturers. For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature at 120°C. Of course it should be noted that this improvement in the surface appearance may be at the expense of the cycle time.

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