TECHNYL® C 52G1 V30 GREY 2408CF

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 52G1 V30 Grey 2408 CF is a Non-phosphorous and Non-halogenated flame retardant polyamide 6, reinforced with 25% of glass fiber, heat stabilized, for injection moulding. This flame retardant grade with excellent
moulding and electrical performance.

General Information			
UL YellowCard	E44716-102092426		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer Flame retardancy		
Features	UV Laser Markable Anti-arc Phosphorus content, low (to none) Halogen-free		
Uses	Electrical/Electronic Applications		
Agency Ratings	EC 1907/2006 (REACH) UL QMFZ2		
Appearance	Grey		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA6-GF30 FR(30)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.38	g/cm³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	7400	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**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	220	°C	ISO 11357-3

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	**Nominal Value**	**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
0.8 mm	960	°C	IEC 60695-2-12
1.6 mm	960	°C	IEC 60695-2-12
3.2 mm	960	°C	IEC 60695-2-12
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80	°C	
Suggested Max Moisture	0.20	%	
Rear Temperature	230 - 235	°C	
Middle Temperature	235 - 240	°C	
Front Temperature	240 - 250	°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.

Recommended distributors for this material

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