TECHNYL® C 50H2 GREY 271 N

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 50H2 Grey 271 N is an unfilled Non-phosphorous and Non-halogenated flame retardant polyamide 6, heat stabilized, for injection moulding. This product, UL94 VO @ 0,4mm, offers excellent moldability together with good stiffness.

General Information								
UL YellowCard		E44716-235	E44716-235530					
Additive		heat stabilizer						
		Flame retard	Flame retardancy					
Features		Phosphorus content, low (to none)						
		Good demoulding performance						
		Halogen-fre	e					
Uses		Flectrical/Fle	ectronic Applications					
Agency Ratings			EC 1907/2006 (REACH)					
rigency natings		EN 45545						
			NF F 16-101					
	UL QMFZ2							
Appearance		Black	Black					
		Grey	Grey					
		Natural colo	Natural color					
Forms			Particle					
Processing Method		Injection molding						
Resin ID (ISO 1043)		PA6 FR(30)	PA6 FR(30)					
Physical	Dry		Conditioned	Unit	Test Method			
Density	1.16			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)	3500		2000	MPa	ISO 527-2/1A			
Electrical	Dry		Conditioned	Unit	Test Method			
Surface Resistivity	1.0E+15		1.0E+12	ohms	IEC 60093			
Volume Resistivity	1.0E+15		1.0E+12	ohms·cm	IEC 60093			
Dielectric Strength (2.00								
mm)	34		30	kV/mm	IEC 60243-1			
Relative Permittivity	3.50		3.90		IEC 60250			

Dissipation Factor	0.020	0.060		IEC 60250
Comparative Tracking Index				IEC 60112
Solution a	600	600	V	IEC 60112
Solution B	475		V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.40 mm)	V-0			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
Glow Wire Ignition Temperature				IEC 60695-2-13
0.8 mm	700		°C	IEC 60695-2-13
1.6 mm	700		°C	IEC 60695-2-13
3.2 mm	700		°C	IEC 60695-2-13
Oxygen Index	36		%	ISO 4589-2
French Fire Index	F2			NF F16-101
French Smoke Index	12			NF F16-101
European Railways Certifications				EN 45545-2
R22	HL3			EN 45545-2
R23	HL3			EN 45545-2
R25	HL3			EN 45545-2
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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