

TECHNYL® C 218 V25 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 218 V25 Natural is a polyamide 6, reinforced with 25% of glass fiber, heat stabilized, for injection moulding. The product offers an excellent combination between thermal and mechanical properties.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 25% filler by weight		
Additive		heat stabilizer		
Features		Good dimensional stability		
		Good liquidity		
		Good demoulding performance		
Uses		Application in Automobile Field		
RoHS Compliance		RoHS compliance		
Appearance		Black		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA6-GF25		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8400	4700	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	162	100	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	3.9	--	%	ISO 527-2
Flexural Modulus (23°C)	8300	4600	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	85	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	11	20	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/Af

Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	--	22	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.090		IEC 60250
Comparative Tracking Index (Solution A)	550	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Glow Wire Flammability Index (1.6 mm)	650	--	°C	IEC 60695-2-12
Injection	Dry	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 2-4h

Injection Advice:

For reinforced polyamide, Solvay recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion.

For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature of 90°C to 120°C with an optimum at 105°C.

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