

TECHNYL® A 218C V10 NATURAL S

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218C V10 Natural S is a polyamide 66, reinforced with 10% of glass fibre, heat stabilized, specially developed for good electrical conductivity, for injection moulding.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 10% filler by weight		
Additive		heat stabilizer		
Features		Heat Stabilized - Inorganic		
		Conductivity		
		Good liquidity		
		Good demoulding performance		
Uses		Electrical/Electronic Applications		
		Application in Automobile Field		
RoHS Compliance		RoHS compliance		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA66-GF10		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7000	3900	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	125	75.0	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	4.0	10	%	ISO 527-2
Flexural Modulus (23°C)	7000	3900	MPa	ISO 178
Flexural Stress				ISO 178
--	155	--	MPa	ISO 178
23°C	--	95.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	6.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	60	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	232	--	°C	ISO 75-2/Af
Melting Temperature	262	--	°C	ISO 11357, ASTM D3417
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	--	1.0E+14	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.2 mm)	HB	--		UL 94
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	270 - 280		°C	
Middle Temperature	275 - 285		°C	
Front Temperature	280 - 290		°C	
Mold Temperature	70 - 100		°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.

The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

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