

TECHNYL® A 218G2 V50 BLACK 34N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218G2 V50 Black 34N is a polyamide 66, reinforced with 50% of glass fiber, heat stabilized, for injection moulding. This grade has been specially designed to improve its resistance to automotive cooling liquids, increasing lifetime of parts in permanent contact with such liquids.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		heat stabilizer		
Features		Heat Stabilized - Inorganic		
		High Glycol Resistance		
		Rigidity, high		
		Good liquidity		
		Hydrolysis resistance		
		Ethylene glycol resistance		
		Good demoulding performance		
Uses		Application in Automobile Field		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Black		
Forms		Particle		
Processing Method		Injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
Resin ID (ISO 1043)		PA66-GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.60	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16200	12000	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	240	160	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	2.7	4.0	%	ISO 527-2
Flexural Modulus (23°C)	13500	10000	MPa	ISO 178
Flexural Stress (23°C)	350	270	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	95	97	kJ/m ²	ISO 179/1eU

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	260	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	255	--	°C	ISO 75-2/Af
Melting Temperature	262	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.8 mm	HB	--		UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.8 mm	650	--	°C	IEC 60695-2-12
1.6 mm	650	--	°C	IEC 60695-2-12
3.2 mm	650	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.15		%	
Rear Temperature	270 - 280		°C	
Middle Temperature	280 - 290		°C	
Front Temperature	280 - 300		°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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