

TECHNYL® C 218L V30 BLACK-J

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 218L V30 Black-J is a polyamide 6 reinforced with 30% glass fibre and UV stabilized for injection moulding. The product offers an excellent combination between thermal and mechanical properties.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
		UV stabilizer		
Features		Good dimensional stability		
		Good UV resistance		
		Good liquidity		
		Good demoulding performance		
Uses		Application in Automobile Field		
RoHS Compliance		RoHS compliance		
Appearance		Black		
		Grey		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA6-GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.95	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9700	6200	MPa	ISO 527-2/1A
Tensile Strength				
Fracture, 23°C	160	--	MPa	ASTM D638
Fracture, 23°C	165	120	MPa	ISO 527-2/1A
Tensile Elongation				
Fracture, 23°C	3.0	--	%	ASTM D638
Fracture, 23°C	3.8	4.5	%	ISO 527-2
Flexural Modulus				
23°C	8500	--	MPa	ASTM D790
23°C	14300	--	MPa	ISO 178
Flexural Strength (23°C)	230	--	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	110	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	205	--	°C	ASTM D648
1.8 MPa, not annealed	202	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	--	22	kV/mm	IEC 60243-1
Relative Permittivity	3.80	4.50		IEC 60250
Comparative Tracking Index (Solution A)	550	475	V	IEC 60112
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
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 - 235		°C	
Middle Temperature	235 - 240		°C	
Front Temperature	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

