

TECHNYL® C 218 V50 BLACK 51

Polyamide 6
Solvay Engineering Plastics

Message:
TECHNYL C 218 V50 is a polyamide 6 reinforced with 50% of glass fiber with excellent thermal stability

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		Good Dimensional Stability		
		Good Impact Resistance		
		Good Stiffness		
		Good Thermal Stability		
Appearance		Black		
		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.56	--	g/cm ³	ASTM D792
Water Absorption (Equilibrium, 23°C, 50% RH)	0.75	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14600	8600	MPa	ISO 527-2
Tensile Stress	225	150	MPa	ISO 527-2
Tensile Strain (Break)	2.0	3.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	19	34	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	110	120	kJ/m ²	ISO 179
Notched Izod Impact Strength	17	29	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	215	--	°C	ISO 75-2/A
Peak Melting Temperature	222	--	°C	ASTM D3418
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+11	ohms · cm	IEC 60093
Electric Strength	--	22	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.80	4.50		IEC 60250

Dissipation Factor (1 MHz)	0.020	9.0E-3		IEC 60250
Comparative Tracking Index	550	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.400 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Rear Temperature	225 to 230		°C	
Middle Temperature	230 to 240		°C	
Front Temperature	240 to 250		°C	
Nozzle Temperature	230 to 240		°C	
Mold Temperature	80.0 to 100		°C	

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