

TECHNYL® C 218L V30 BLACK Z/4

Polyamide 6
Solvay Engineering Plastics

Message:
TECHNYL C 218 L V30 is a polyamide 6 reinforced with 30% glass fibre and UV stabilized.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		UV Stabilizer		
Features		Good Dimensional Stability		
		Good Impact Resistance		
		Medium Heat Resistance		
Appearance		Black		
		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.95	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9700	6200	MPa	ISO 527-2
Tensile Stress (23°C)	165	120	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.8	4.5	%	ISO 527-2
Flexural Modulus (23°C)	14300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	--	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	208	--	°C	ISO 75-2/A
Peak Melting Temperature	220	--	°C	ASTM D3418
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength (23°C)	--	22	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	3.80	4.50		IEC 60250
Dissipation Factor (23°C)	0.020	9.0E-3		IEC 60250

Comparative Tracking Index	550	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	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	240 to 250		°C	
Mold Temperature	80.0 to 100		°C	

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