TECHNYL® C 218 V40 BLACK 21

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL C 218 V40 is a polyamide 6 with 40% of glass fiber and with thermal stability.

General Information	
Filler / Reinforcement	Glass Fiber,40% Filler by Weight
Features	Good Dimensional Stability Good Impact Resistance Good Thermal Stability
Appearance	Black Natural Color
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.45	--	g/cm³	ASTM D792
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	13100	7300	MPa	ISO 527-2
Tensile Stress (23°C)	210	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.3	3.5	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	18	34	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	110	120	kJ/m²	ISO 179
Notched Izod Impact Strength (23°C)	16	34	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	214	--	°C	ISO 75-2/A
Peak Melting Temperature	222	--	°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, 1 MHz)	3.80	4.50		IEC 60250
Dissipation Factor (23°C, 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	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	240 to 260		°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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