

TECHNYL® C 216 V15 BLACK 61

Polyamide 6
Solvay Engineering Plastics

Message:
TECHNYL C 216 V15 is a polyamide 6 with 15% of glass fiber.

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Good Dimensional Stability		
		Good Impact Resistance		
		Good Stiffness		
Appearance		Black		
		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.22	--	g/cm ³	ASTM D792
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6100	2900	MPa	ISO 527-2
Tensile Stress (23°C)	120	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	7.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	42	58	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	5.0	14	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	180	--	°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	0.090		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	230 to 240		°C	
Mold Temperature	80.0 to 100		°C	

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