

TECHNYL® C 216 V40 BLACK Z

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 216 V40 Black Z is a polyamide 6, reinforced with 40% of glass fibre, for injection moulding. This product is available in black color.

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-GF40<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.90	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13100	7300	MPa	ISO 527-2/1A
Tensile Stress (Break)	215	140	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.3	3.5	%	ISO 527-2/1A
Flexural Modulus	13000	7200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	34	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	110	120	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	16	29	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	214	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Peak Crystallization Temperature	190	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	IEC 60093

Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	--	22	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.090		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	475	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.400 mm	HB	--		
0.800 mm	HB	--		
1.60 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	225 to 230		°C	
Middle Temperature	230 to 240		°C	
Front Temperature	245 to 255		°C	
Mold Temperature	80.0 to 120		°C	

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