

TECHNYL® C 216 V35 BLACK Z

Polyamide 6
Solvay Engineering Plastics

Message:
Polyamide PA6, reinforced with 35% of glass fibre, for injection moulding.

General Information				
UL YellowCard		E44716-235522		
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
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-GF35<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.90	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10600	6900	MPa	ISO 527-2/1A
Tensile Stress (Break)	195	115	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.6	4.0	%	ISO 527-2/1A
Flexural Modulus	10500	6800	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	17	33	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	100	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	15	28	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	2.8E-5	--	cm/cm/°C	ISO 11359-2
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
Relative Permittivity	3.80	4.50		IEC 60250
Dissipation Factor	0.020	0.090		IEC 60250
Comparative Tracking Index (Solution A)	550	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12

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