

TECHNYL® A 216 V33 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 216 V33 Natural is a polyamide 66, reinforced with 33% of glass fibre, for injection moulding. This product is available in natural color.

General Information				
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF33<		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.39	--	g/cm ³	ASTM D792
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	0.78	--	%	ISO 62
Molding Shrinkage Isotropy	0.620	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	7900	MPa	ISO 527-2/1A
Tensile Stress (Break)	195	135	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.6	4.0	%	ISO 527-2/1A
Flexural Modulus	8800	6200	MPa	ISO 178
Flexural Stress	290	190	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	89	96	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	12	17	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	95	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	255	--	°C	ISO 75-2/Af
Peak Melting Temperature	> 255	--	°C	ASTM D3418
CLTE - Flow (23 to 85°C)	2.5E-5	--	cm/cm/°C	ISO 11359-2

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	2.0E+13	ohms·cm	IEC 60093
Electric Strength	40	30	kV/mm	IEC 60243-1
Relative Permittivity	3.75	4.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	500	500	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.60 mm	650	--	°C	
3.20 mm	750	--	°C	
Glow Wire Ignition Temperature (1.60 mm)	650	--	°C	IEC 60695-2-13
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	265 to 275		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	70.0 to 100		°C	

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