

TECHNYL® A 218G V33 BLACK 34N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218G V33 Black 34N is a polyamide 66, reinforced with 33% of glass fiber, heat stabilized, for injection molding. The product is available in black color.

General Information				
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Additive		Heat Stabilizer		
Features		Glycol Resistant		
		Good Surface Finish		
		Heat Stabilized		
Uses		Automotive Applications		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF33<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.0	--	%	
Flow	0.40	--	%	
Water Absorption (23°C, 24 hr)	0.80	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	7900	MPa	ISO 527-2/1A
Tensile Strength				
Break	195	--	MPa	ASTM D638
Break	200	140	MPa	ISO 527-2/1A
Tensile Elongation				
Break	3.0	--	%	ASTM D638
Break	3.4	--	%	ISO 527-2/1A
Flexural Modulus				
--	9500	--	MPa	ASTM D790
--	9500	7000	MPa	ISO 178
Flexural Strength				
--	295	--	MPa	ASTM D790
--	13.0	20.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	19	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	92	98	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	120	--	J/m	ASTM D256
23°C	12	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
1.8 MPa, Unannealed	255	--	°C	ASTM D648
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/Af
Melting Temperature	260	--	°C	ISO 11357-3
CLTE - Transverse (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	5.0E+14	1.0E+13	ohms·cm	IEC 60093
Electric Strength	34	29	kV/mm	IEC 60243-1
Relative Permittivity	3.70	4.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index (Solution A)	450	425	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	700	--	°C	IEC 60695-2-12
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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