

TECHNYL® A 218 V30 BLACK 34 NG

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218 V30 Black 34 NG is a polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection molding. The product is available in black color.

General Information				
UL YellowCard		E44716-235569	E44716-235570	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Glycol Resistant		
		Heat Stabilized		
Uses		Automotive Applications		
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)		>PA66-GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	0.80	--	%	ISO 62
Molding Shrinkage Isotropy	0.620	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7500	MPa	ISO 527-2/1A
Tensile Stress (Break)	190	135	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	--	%	ISO 527-2/1A
Flexural Modulus				
--	9000	--	MPa	ASTM D790
--	9000	6400	MPa	ISO 178
Flexural Strength				

--	290	--	MPa	ASTM D790
--	280	185	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1fU
-- ¹	42	--	kJ/m ²	
-- ²	70	--	kJ/m ²	
Notched Izod Impact				
23°C	120	--	J/m	ASTM D256
23°C	10	18	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	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 85°C	2.5E-5	--	cm/cm/°C	
Transverse : 23 to 85°C	2.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	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				IEC 60112
Solution A	600	600	V	
Solution B	500	--	V	
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
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	
NOTE				

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| 1. | After ageing in
water/glycol for 200 hr at
135°C |
| 2. | After ageing in
water/glycol for 200 hr at
120°C |

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