

TECHNYL® A 218G1 V30 BLACK 34 N

Polyamide 66
Solvay Engineering Plastics

Message:

Polyamide 66, reinforced with 30% of glass fibre, for injection moulding This grade shows an improved retention of properties after long term ageing in automotive cooling liquids. For 700 hours' ageing at 132 °C and pressure of 2 bars in water glycol envi

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Glycol Resistant		
Uses		Automotive Applications		
		Automotive Under the Hood		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	0.80	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7500	MPa	ISO 527-2/1A
Tensile Stress (Break)	195	140	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2/1A
Flexural Modulus	9200	6400	MPa	ISO 178
Flexural Stress	280	185	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
--	85	100	kJ/m ²	ISO 179/1eU
-- ¹	55	--	kJ/m ²	ISO 179/1fU
Notched Izod Impact Strength	10	18	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	--	°C	ISO 75-2/Af

Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	2.0E-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	1.0E+13	ohms·cm	IEC 60093
Electric Strength	34	29	kV/mm	IEC 60243-1
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	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				

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

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