

TECHNYL® A 218G1 V25 BLACK 34 N

Polyamide 66
Solvay Engineering Plastics

Message:

Polyamide 66, reinforced with 25% of glass fibre, for injection moulding. This grade shows an improved retention of properties after long term ageing in automotive cooling liquids.

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Glycol Resistant		
Uses		Automotive Applications		
		Automotive Under the Hood		
Appearance		Black		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA66-GF25<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.60	--	%	
Water Absorption (23°C, 24 hr)	0.90	--	%	ISO 62
Molding Shrinkage Isotropy	0.750	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8400	6300	MPa	ISO 527-2/1A
Tensile Stress (Break)	170	--	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2/1A
Flexural Modulus	7900	5000	MPa	ISO 178
Flexural Stress	255	155	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
--	68	87	kJ/m ²	ISO 179/1eU
-- ¹	50	--	kJ/m ²	ISO 179/1fU

Notched Izod Impact Strength	8.0	15	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	2.7E-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	450	425	V	
Solution B	350	--	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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