

TECHNYL® A 218G V30 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide PA66, reinforced with 30% of glass fibre, for injection moulding specially stabilized to improve its resistance automotive cooling liquids.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Glycol Resistant		
		Good Chemical Resistance		
Uses		Automotive Applications		
Appearance		Natural Color		
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
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	4.0	%	ISO 527-2/1A
Flexural Modulus	9300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	12	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
--	80	95	kJ/m ²	ISO 179/1eU
-- ¹	70	--	kJ/m ²	ISO 179/1fU
Notched Izod Impact Strength	11	16	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	263	--	°C	ISO 11357-3
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
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	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 120°C

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