

TECHNYL® A 218W V30 BLACK FA

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide 66, reinforced with 30% of glass fibre, for injection moulding, heat stabilized, with improved hydrolysis resistance.

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized			
	Hydrolysis Resistant			
Uses	Connectors			
	Electrical/Electronic Applications			
Appearance	Black			
Processing Method	Injection Molding			
Part Marking Code (ISO 11469)	>PA66-GF30<			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	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)	185	130	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2/1A
Flexural Modulus	9000	6400	MPa	ISO 178
Flexural Stress	275	180	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	80	90	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	10	17	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	255	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	2.8E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	35	--	kV/mm	IEC 60243-1
Relative Permittivity	3.70	3.30		IEC 60250
Dissipation Factor	0.020	0.080		IEC 60250
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Flammability Index (1.60 mm)	700	--	°C	IEC 60695-2-12
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	60.0 to 80.0		°C	

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