

TECHNYL STAR™ AFX 218 V50 BLACK 31N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYLSTAR™ AFX 218 V50 Black 31N is based on a patented high flow polyamide 66 resin (Technylstar), heat stabilized, reinforced with 50% of glass fibre, for injection moulding. It is available in black color.

General Information				
Filler / Reinforcement	Glass Fiber,50% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Flow			
	Good Processability			
	Good Surface Finish			
	Heat Stabilized			
	High Flow			
	High Stiffness			
Uses	Automotive Applications			
Agency Ratings	UU 453/2010/EC			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Part Marking Code (ISO 11469)	>PA66-GF50<			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.42	--	%	
Flow	0.34	--	%	
Water Absorption (23°C, 24 hr)	0.60	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17000	12500	MPa	ISO 527-2/1A
Tensile Stress (Break)	255	180	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.5	3.5	%	ISO 527-2/1A
Flexural Modulus	15000	--	MPa	ISO 178
Flexural Stress	380	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	21	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	100	kJ/m ²	ISO 179/1eU

Notched Izod Impact Strength (23°C)	17	21	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	88	91	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	256	--	°C	ISO 75-2/Af
Melting Temperature	264	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (0.800 mm)	650	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	675	--	°C	IEC 60695-2-13
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 90.0		°C	

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