

# TECHNYL STAR™ AFX 218S V50 BLACK 31N

Polyamide 66  
Solvay Engineering Plastics

Message:

TECHNYLSTAR™ Polyamide 66, 50% glass fiber reinforced, heat stabilized for injection moulding. Characterized by a high fluidity of the melt.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Surface Finish		
	Good Thermal Stability		
	Heat Stabilized		
	High Flow		
	High Stiffness		
	High Strength		
Uses	Automotive Applications		
	Industrial Applications		
	Pulleys		
Appearance	Black		
	Colors Available		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PA66-GF50<		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.42	%	
Flow	0.34	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.60	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	230	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	16000	MPa	ASTM D790
Flexural Strength	355	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	256	°C	ASTM D648
Melting Temperature	262	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	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	

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#### Recommended distributors for this material

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