

TECHNYL STAR™ AF 218 V40 BLACK 21N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYLSTAR® AF 218 V40 BLACK 21N is a polyamide 6.6, high flow, reinforced with 40% of glass fiber, heat stabilized, for injection molding. This product is available in black color.

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Processability		
		Good Surface Finish		
		Heat Stabilized		
		High Flow		
Uses		Automotive Applications		
		Automotive Under the Hood		
		Pulleys		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF40<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.70	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	9600	MPa	ISO 527-2/1A
Tensile Stress (Break)	220	155	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.5	3.5	%	ISO 527-2/1A
Flexural Modulus	10800	7600	MPa	ISO 178
Flexural Stress	305	230	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	15	19	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	97	98	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	14	18	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
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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