

TECHNYL STAR™ AF 218 V35 BLACK 21N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL STAR™ AF 218 V35 BLACK 21N is a Polyamide 66 (Nylon 66) material filled with 35% glass fiber. It is available in Europe for injection molding. Important attributes of TECHNYL STAR™ AF 218 V35 BLACK 21N are:

RoHS Compliant
Good Aesthetics
Good Processability
Heat Stabilizer
High Flow

Typical applications include:

Automotive
Engineering/Industrial Parts

General Information				
Filler / Reinforcement		Glass Fiber,35% 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-GF35<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.75	--	%	
Flow	0.45	--	%	
Water Absorption (23°C, 24 hr)	0.75	--	%	ISO 62
Molding Shrinkage Isotropy	0.600	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11100	9100	MPa	ISO 527-2/1A
Tensile Stress (Break)	200	140	MPa	ISO 527-2/1A

Tensile Strain (Break)	3.0	4.0	%	ISO 527-2/1A
Flexural Modulus	9500	--	MPa	ISO 178
Flexural Stress	280	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	80	90	kJ/m ²	ISO 179/1eU
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	265 to 275		°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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