

TECHNYL STAR™ AF 219 V30 BLACK

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL STAR™ AF 219 V30 BLACK is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Europe for injection molding. Important attributes of TECHNYL STAR™ AF 219 V30 BLACK are:

- RoHS Compliant
- Good Aesthetics
- Good Processability
- Heat Stabilizer
- High Flow

Typical applications include:

- Electrical/Electronic Applications
- Engineering/Industrial Parts
- Wire & Cable

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Processability		
	Good Surface Finish		
	Heat Stabilized		
	High Flow		
Uses	Connectors		
	Electrical/Electronic Applications		
	Insulation		
	Thin-walled Parts		
Agency Ratings	UU 453/2010/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PA66-GF30<		
Physical	Nominal Value	Unit	Test Method
Density	1.37	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	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2/1A

Tensile Stress (Break)	190	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	%	ISO 527-2/1A
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	270	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	70	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	258	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	250	°C	ISO 75-2/Af
Melting Temperature	263	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	2.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
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	60.0 to 80.0	°C	

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