

TECHNYL STAR™ AFX 218 V60 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYLSTAR™ AFX 218 V60 Natural is based on a patented high flow polyamide 66 resin (Technylstar), heat stabilized, reinforced with 60% of glass fibre, for injection moulding. It is available in natural color.

General Information				
Filler / Reinforcement		Glass Fiber,60% Filler by Weight		
Additive		Heat Stabilizer		
Features		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		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF60<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.69	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.39	--	%	
Flow	0.32	--	%	
Water Absorption (23°C, 24 hr)	0.60	--	%	ISO 62
Molding Shrinkage Isotropy	0.820	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22000	18000	MPa	ISO 527-2/1A
Tensile Stress (Break)	268	195	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.1	3.1	%	ISO 527-2/1A
Flexural Modulus	19000	--	MPa	ISO 178
Flexural Stress	416	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	22	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	98	100	kJ/m ²	ISO 179/1eU

Notched Izod Impact Strength (23°C)	18	21	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	85	93	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	257	--	°C	ISO 75-2/Af
Melting Temperature	264	--	°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 90.0		°C	

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