

TECHNYL STAR™ SX 218 V50 BLACK Z

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYLSTAR™ SX 218 V50 Black Z is based on a patented high flow polyamide 6 resin (Technylstar), heat stabilized, reinforced with 50% of glass fibre, for injection moulding. This product is available in black color.

General Information				
UL YellowCard		E44716-235539		
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Surface Finish		
		Heat Stabilized		
		High Flow		
		High Stiffness		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6-GF50<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.33	--	%	
Flow	0.25	--	%	
Water Absorption (23°C, 24 hr)	0.72	--	%	ISO 62
Molding Shrinkage Isotropy	0.760	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17000	11600	MPa	ISO 527-2/1A
Tensile Stress (Break)	230	162	MPa	ISO 527-2/1A
Tensile Elongation				
Break	2.5	--	%	ASTM D638
Break	2.6	4.0	%	ISO 527-2/1A
Flexural Modulus				
--	14000	--	MPa	ASTM D790
--	15500	10000	MPa	ISO 178
Flexural Strength	320	--	MPa	ASTM D790, ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	15	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	95	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	180	--	J/m	ASTM D256
23°C	15	22	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	90	100	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 to 235		°C	
Middle Temperature	235 to 240		°C	
Front Temperature	240 to 245		°C	
Mold Temperature	80.0 to 100		°C	

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