

TECHNYL STAR™ S 218 V30 BLACK 31 N

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYLSTAR™ S 218 V30 Black 31N is based on a patented high flow polyamide 6 resin (TechnylStar), heat stabilized, reinforced with 30% of glass fibre, for injection moulding. This product is available in black color.

General Information				
UL YellowCard		E44716-235535		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Processability		
		Good Surface Finish		
		Heat Stabilized		
		High Flow		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6-GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.65	--	%	
Flow	0.35	--	%	
Water Absorption (23°C, 24 hr)	0.95	--	%	ISO 62
Molding Shrinkage Isotropy	0.540	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9600	6200	MPa	ISO 527-2/1A
Tensile Stress (Break)	190	110	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.8	4.5	%	ISO 527-2/1A
Flexural Modulus				
--	8650	4750	MPa	ASTM D790
--	8400	4900	MPa	ISO 178
Flexural Strength	255	140	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	32	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	81	90	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
-30°C	12	--	J/m	ASTM D256
-30°C	12	14	kJ/m ²	ISO 180/1A
23°C	12	21	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
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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