

TECHNYL STAR™ S 218 V35 BLACK 31 N

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL STAR Polyamide, reinforced with 35% of glass fibre,heat stabilized, for injection moulding. Characterized by a high fluidity of the melt.

General Information				
UL YellowCard		E44716-235536		
Filler / Reinforcement		Glass fiber reinforced material, 35% filler by weight		
Additive		heat stabilizer		
Features		High liquidity		
		Thermal Stability		
Appearance		Black		
Processing Method		Injection molding		
Multi-Point Data		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-GF35		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal method
Vertical flow direction	0.53	--	%	Internal method
Flow direction	0.30	--	%	Internal method
Water Absorption (23°C, 24 hr)	0.90	--	%	ISO 62
Molding Shrinkage Isotropy	0.420	--		Internal method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10700	7400	MPa	ISO 527-2/1A
Tensile Stress (Break)	195	115	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	4.5	%	ISO 527-2/1A
Flexural Modulus	10000	6200	MPa	ISO 178
Flexural Stress	295	195	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	13	19	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	75	80	kJ/m ²	ISO 179/1eU
Notched Izod Impact	13	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	75	80	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	210	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 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	0.15		%	
Rear Temperature	220 - 225		°C	
Middle Temperature	225 - 235		°C	
Front Temperature	235 - 245		°C	
Mold Temperature	80.0		°C	
Injection instructions				

Spiral length vs standard PA: 200%

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