

TECHNYL STAR™ S 216 V30 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL STAR TM Polyamide, reinforced with 30% of glass fibre, for injection moulding. Characterized by a high fluidity of the melt.

General Information				
UL YellowCard		E44716-300166		
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Features		High liquidity		
Appearance		Natural color		
Processing Method		Injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6-GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.95	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9600	6200	MPa	ISO 527-2/1A
Tensile Stress (Break)	180	110	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.3	5.5	%	ISO 527-2/1A
Flexural Modulus	9300	5200	MPa	ISO 178
Flexural Stress	255	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10	14	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
--	81	90	kJ/m²	ISO 179/1eU
-30°C	50	--	kJ/m²	ISO 179/1eU
Notched Izod Impact	12	19	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	82	65	kJ/m²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	204	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	3.2E-5	--	cm/cm/°C	ISO 11359-2

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength	--	22	kV/mm	IEC 60243-1
Relative Permittivity	3.80	4.50		IEC 60250
Dissipation Factor	0.020	0.090		IEC 60250
Comparative Tracking Index (Solution A)	550	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		UL 94
3.20 mm	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
Oxygen Index	22	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	220 - 225		°C	
Middle Temperature	225 - 235		°C	
Front Temperature	235 - 245		°C	
Mold Temperature	80.0		°C	
Injection instructions				

Inj Pressure vs Standard PA: -42% Spiral Length vs Standard PA: 220%

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT