

TECHNYL® C 246SI V30 BLACK 31N

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 246SI V30 Black is a polyamide 6 reinforced with 30% of glass fiber, with improved impact resistance, for injection moulding. This grade offers high impact strength and good mechanical properties.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		Impact modifier		
Features		Good dimensional stability		
		Impact resistance, high		
		Good liquidity		
		Excellent appearance		
Uses		Power/other tools		
		Industrial application		
		Consumer goods application field		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Black		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Resin ID (ISO 1043)		PA6-GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
23°C, 24 hr	0.88	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8600	5000	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	140	90.0	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	4.0	10	%	ISO 527-2
Flexural Modulus (23°C)	7500	4400	MPa	ISO 178

Flexural Stress (23°C)	230	125	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	ISO 179/1eA
23°C	20	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
-30°C	95	100	kJ/m ²	ISO 179/1eU
-30°C	80	--	kJ/m ²	ISO 179/1fU
23°C	90	110	kJ/m ²	ISO 179/1eU
23°C	80	100	kJ/m ²	ISO 179/1fU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.080		%	
Rear Temperature	250 - 270		°C	
Middle Temperature	260 - 280		°C	
Front Temperature	260 - 290		°C	
Mold Temperature	70 - 90		°C	
Injection instructions				

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4h

Injection Advice:

For reinforced polyamide, Solvay recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature of 90°C to 120°C with an optimum at 105°C. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

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