

TECHNYL® C 236SI V30 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 236SI V30 Natural 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		Impact resistance, good		
		Good liquidity		
		Good demoulding performance		
Uses		Industrial application		
		Outdoor application		
		Sporting goods		
		Consumer goods application field		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA6-GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.93	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9500	5200	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	150	95.0	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	4.0	--	%	ISO 527-2
Flexural Modulus (23°C)	7600	4000	MPa	ISO 178
Flexural Stress (23°C)	227	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	--	kJ/m ²	ISO 179/1eA
23°C	18	32	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	98	98	kJ/m ²	ISO 179/1eU
23°C	92	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	--	°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.

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