

TECHNYL® C 236SI NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 236SI NATURAL is an unreinforced polyamide 6, with high impact resistance, for injection moulding. This grade offers high impact strength and flexibility.

General Information				
UL YellowCard		E44716-101222553		
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)		
		UL QMFZ2		
RoHS Compliance		RoHS compliance		
Appearance		Black		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA6		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2200	910	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield, 23°C	54.0	--	MPa	ISO 527-2/1A
Fracture, 23°C	47.0	42.0	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2
Yield, 23°C	4.0	--	%	ISO 527-2
Fracture, 23°C	55	--	%	ISO 527-2

Flexural Modulus (23°C)	1930	640	MPa	ISO 178
Flexural Stress (23°C)	77.0	28.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	--	kJ/m ²	ISO 179/1eA
23°C	76	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact (23°C)	66	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	56.0	--	°C	ISO 75-2/Af
Melting Temperature	220	--	°C	ISO 11357-3
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	240 - 260		°C	
Middle Temperature	250 - 270		°C	
Front Temperature	260 - 280		°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 unfilled polyamide, Solvay recommends the use of high alloy steel with a weak chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (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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