TECHNYL® C 246SI NATURAL

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 246SI Natural is an unfilled polyamide 6, with improved impact resistance, for injection moulding. This grade offers high impact strength, flexibility and good surface aspect.

General Information	
Additive	Impact modifier
Features	Impact resistance, high Good flexibility Low temperature impact resistance
Uses	Large household appliances and small household appliances Power/other tools Furniture Sporting goods Consumer goods application field
Agency Ratings	EC 1907/2006 (REACH)
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	1.06	--	g/cm³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	1900	700	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield, 23°C	45.0	36.0	MPa	ISO 527-2/1A
Fracture, 23°C	46.0	36.0	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2
Yield, 23°C	4.0	--	%	ISO 527-2
Fracture, 23°C	120	--	%	ISO 527-2
Flexural Modulus (23°C)	1700	500	MPa	ISO 178
Flexural Stress (23°C)	64.0	21.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	23	--	kJ/m²	ISO 179/1eA
23°C	110 kJ/m²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact (23°C)	110	--	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	51.0	--	°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 2-4hInjection 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.

Recommended distributors for this material

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Phone: +86 13424755533

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