TECHNYL®

TECHNYL® C 236SI NATURAL

TECHNICAL DATA SHEET

Revised: April, 2017

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

Material Status	• Commercial: Active	
Availability	• Africa & Middle East	• Europe
Additive	• Impact Modifier	
Key Benefits	• Good Flow • Good Impact Resistance	• Good Mold Release
Applications	• Consumer and Industrial applications • Outdoors activities	• Sports equipment
Certification/Compliance	• EC 1907/2006 (REACH)	• UL QMFZ2
RoHS Compliance	• RoHS Compliant	
Colors Available	• Black	• Natural Color
Forms	• Pellets	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA6	

PROPERTIES

Typical values of properties are for Natural grades

Physical	Dry	Conditioned	Unit	Test Method
Water Absorption (24 hr, 23°C)	1.3		%	ISO 62
Density	1.09		g/cm³	ISO 1183/A

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		MPa	
Break, 23°C	47	42	MPa	
Tensile Strain				ISO 527-2
Yield, 23°C	4.0		%	
Break, 23°C	55		%	
Flexural Modulus (23°C)	1930	640	MPa	ISO 178
Flexural Stress (23°C)	77.0	28.0	MPa	ISO 178
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16		kJ/m²	
23°C	76		kJ/m²	
Charpy Unnotched Impact Strength (23°C)	No Break			ISO 179/1eU

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Mechanical	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength (23°C)	66		kJ/m²	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/Af
1.8 MPa, Unannealed	56		°C	
Melting Temperature	220		°C	ISO 11357-3

PROCESSING

Injection	Dry	Unit
Drying Temperature	80	°C
Suggested Max Moisture	0.20	%
Rear Temperature	240 to 260	°C
Middle Temperature	250 to 270	°C
Front Temperature	260 to 280	°C
Mold Temperature	70 to 90	°C

Injection Notes

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 polyamides, Solvay recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.

DISCLAIMER

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SAFETY INFORMATION

Detailed information regarding safety are available on the safety data sheet (SDS). SDS is sent with the first material order or available by contacting our customer services

REGULATIONS COMPLIANCE

This product is not intended to be used for the following regulated market: food contact, drinking water, toys, cosmetics or medical devices.

This grade complies with ROHS Directive 2011/65/EU and 2015/863 as amended.

Grades produced or imported in Europe comply with REACH directive 1907/2006/EC as amended.

CUSTOMER SERVICES

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
- Part testing
- Design simulation
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design

You can find more information on Solvay Product range on our internet product finder at the following address: http://www.technyl.com

Notes

Typical properties: these are not to be construed as specifications.