TECHNYL®

TECHNYL® C 246 V30 NATURAL

TECHNICAL DATA SHEET

Revised: February, 2018

TECHNYL® C 246 V30 Natural is a polyamide 6, reinforced with 30 % of glass fibre, impact modified, for injection moulding. This grade offers high impact strength and good mechanical properties.

GENERAL

Material Status	Commercial: Active	
Availability	 Africa & Middle East Asia Pacific	• Europe
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight	
Additive	Impact Modifier	
Key Benefits	Good Dimensional StabilityGood Flow	High Impact ResistanceGood Surface Finish
Applications	Consumer and Industrial applicationsOutdoors activitiesPower tools	Seat componentsSki bindingsSports equipment
Certification/Compliance	• EC 1907/2006 (REACH)	• UL QMFZ2
RoHS Compliance	RoHS Compliant	
Colors Available	Natural Color	
Forms	Pellets	
Processing Method	Injection Molding	
Resin ID (ISO 1043)	• PA6-GF30	

PROPERTIES

Typical values of properties are for Natural grades

Physical	Dry	Conditioned L	Jnit	Test Method
Molding Shrinkage				ISO 294-4
Across Flow	0.90	0	%	
Flow	0.060	9	%	
Water Absorption (24 hr, 23°C)	0.95	9	%	ISO 62
Density	1.32	Ç	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned L	Jnit	Test Method
Tensile Modulus (23°C)	8200	5400 N	ИРа	ISO 527-2/1A
Tensile Stress (Break, 23°C)	140	90 N	ИРа	ISO 527-2/1A
Tensile Strain (Break, 23°C)	4.0	0	%	ISO 527-2
Flexural Modulus (23°C)	8000	5200 N	ИРа	ISO 178
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	k	kJ/m²	
23°C	18	30 k	⟨J/m²	

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Mechanical	Dry	Conditioned Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	85	kJ/m ²	
23°C	86	100 kJ/m ²	
Notched Izod Impact Strength (23°C)	17	29 kJ/m ²	ISO 180
Thermal	Dry	Conditioned Unit	Test Method
Heat Deflection Temperature			ISO 75-2/Af
1.8 MPa, Unannealed	200	C°	
Melting Temperature	222	C°	ISO 11357-3
Electrical	Dry	Conditioned Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12 ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13 ohms·cm	IEC 60093
Electric Strength (2.00 mm)		21 kV/mm	IEC 60243-1
Dissipation Factor	0.021	0.10	IEC 60250
Flammability	Dry	Conditioned Unit	Test Method
Flame Rating (1.6 mm)	HB		UL 94

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PROCESSING

Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	230 to 235 °C
Middle Temperature	235 to 240 °C
Front Temperature	240 to 250 °C
Mold Temperature	60 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 reinforced polyamides, 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). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.

DISCLAIMER

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitutive for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANDABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Solvay is at their disposal to supply any additional information.







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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

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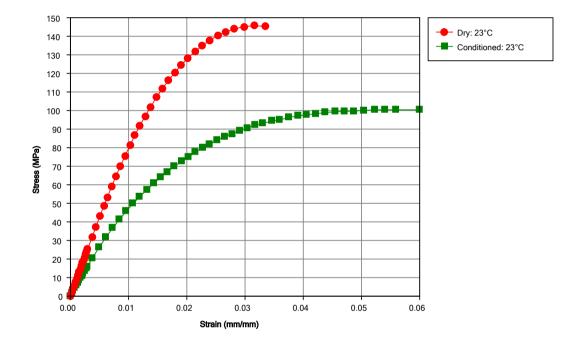
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MULTIPOINT DATA





Notes

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

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