



**TECHNICAL DATA SHEET** 

# **TECHNYL C 246 V30 NC**

TECHNYL C 246 V30 NC 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

Feature	Good surface finish	High impact resistant				
Polymer type	PA6 (Polyamide 6)	PA6 (Polyamide 6)				
Processing technology	Injection molding	Injection molding				
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card				
Applications	Consumer good application Power Tool & Garden Equipment	Outdoor Applications Sport				
Colors available	Natural					
Forms	Pellets					

# **Product identification**

|--|

Physical properties							
Density		ISO 1183	g/cm³	1.32			
Water absorption	24 hr, 23°C	ISO 62	%	0.95			
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.06			
Molding shrinkage, normal		ISO 294-4, 2577	%	0.85			



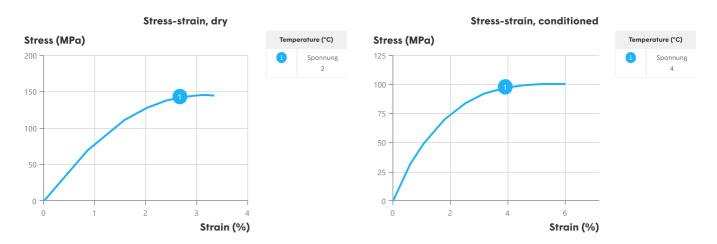


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	Condition				
Mechanical properties				dam / cond.*	
ensile modulus	1 mm/min	ISO 527-1/-2	MPa	8200 / 5400	
tress at break		ISO 527-1/-2	MPa	140 / 90	
train at break		ISO 527-1/-2	%	4/6	
lexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8000 / 5200	
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	86 / 100	
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	85 / -	
harpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	18 / 30	
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	11/-	
zod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	17 / 29	
hermal properties					
Melting temperature, 10°C/min		ISO 11357-1	°C	222	
emp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	200	
Electrical properties /olume resistivity		IEC 62631-3-1	ohm.m	1E+013	
urface resistivity		IEC 62631-3-1	ohm	1E+014	
Burning behaviour		Click here to hav	ve access to the UL Yellow (	Card → <u>QMFZ2.E447</u>	
lammability, 1.5 mm	1.5 mm	UL 94		НВ	
*ditioneddin-to ICO 1110		OL 74			
*: conditioned according to ISO 1110  Processing conditions		OL 74			
rocessing conditions	80 °C	OL 74			
Processing conditions  Trying temperature/time		OL 74			
Processing conditions  Prying temperature/time  Ruggested max moisture	80 °C	OL 74			
Processing conditions  Prying temperature/time  Ruggested max moisture  Rear temperature	80 °C 0.2 %	OL 74			
·	80 °C 0.2 % 230 - 235 °C	OL 74			





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# **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 minimum -20°C. Recommended time 2-4h.

## Injection advice

For reinforced polyamides, Domo 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. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

## **Disclaimer**

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.