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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL A 246M NC

TECHNYL A 246M NC is an unfilled polyamide 6.6, impact modified, for injection moulding. This grade offers an excellent impact resistance, even at low temperature.

General

Feature	High impact resistant	Low temperature impact resistant		
Polymer type	PA66 (Polyamide 66)	PA66 (Polyamide 66)		
Processing technology	Injection molding			
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card		
Applications	Automotive Applications Footwear Power Tool & Garden Equipment	Consumer good application Outdoor Applications Sport		
Colors available	Black	Natural		
Forms	Pellets			

Product identification

ISO 1043 abbreviation	PA66

	Condition			
Physical properties				
Density		ISO 1183	g/cm³	1.08
Water absorption	24 hr, 23°C	ISO 62	%	1.1
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.6
Molding shrinkage, normal		ISO 294-4, 2577	%	1.6

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	Condition			
Mechanical properties				dam / cond.
ensile modulus	1 mm/min	ISO 527-1/-2	МРа	1900 / 600
tress at break		ISO 527-1/-2	МРа	45 / 35
train at break		ISO 527-1/-2	%	90 / -
lexural modulus, ISO 178	2 mm/min	ISO 178	МРа	1800 / 700
lexural modulus, ASTM D790	2 mm/min	ASTM D790	МРа	1800 / -
lexural strength, ISO 178	2 mm/min	ISO 178	МРа	70 / 27
lexural strength, ASTM D790	2 mm/min	ASTM D790	МРа	70 / -
harpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	97 / 100
od notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	60 / 80
od notched impact strength, -30°C	-30°C	ISO 180/1A	kJ/m²	22 / -
Melting temperature, 10°C/min emp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 11357-1	°C	263
Electrical properties				
olume resistivity		IEC 62631-3-1	ohm.m	1E+013
urface resistivity		IEC 62631-3-1	ohm	1E+015
ielectric strength	1 mm	IEC 60243-1	kV/mm	22
Burning behaviour				
JL Yellow Card availability 🕕	Click here to have access to the UL Yellow Card → QMFZ2.E44			
lammability, 1.5 mm	1.5 mm	UL 94		НВ
*: conditioned according to ISO 1110			'	'
Processing conditions				
rying temperature/time	80 °C			
uggested max moisture	0.2 %			
ear temperature	265 - 275 °C			
liddle temperature	270 - 280 °C			
ront temperature	280 - 285 °C			

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60 - 80 °C

Recommended mould temperature

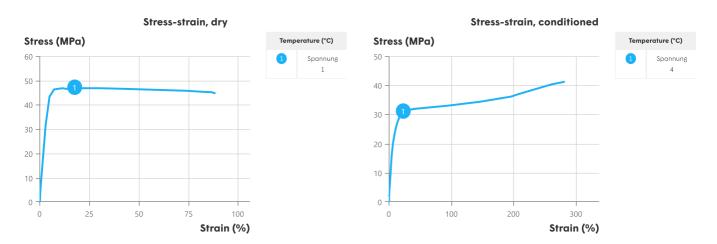
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Injection notes

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 unfilled polyamides, Domo 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. 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.