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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL B 230 NC

TECHNYL B 230 NC is an unfilled copolyamide 6.6/6, impact modified, for injection moulding. This product offers an excellent notched impact resistance, even at low temperature.

General

Feature	Molding release agent Impact resistant	Good surface finish
Polymer type	PA66/6 copolymer	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Sport	
Colors available	Natural	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66/6	

Physical properties				
Density		ISO 1183	g/cm³	1.09
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.3 - 1.4
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.55 - 175
Molding shrinkage, normal		ISO 294-4, 2577	%	2 - 2.1

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	Condition			
Mechanical properties				dam / cond
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	2300 / 700
Stress at break		ISO 527-1/-2	MPa	50 / 35
Strain at break		ISO 527-1/-2	%	50 / 250
rield stress		ISO 527-1/-2	MPa	60 / 45
Yield strain		ISO 527-1/-2	%	5/12
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2000 / 600
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	80 / 55
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	8 / 30
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	5/-
zod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	7 / 20
zod notched impact strength, -30°C	-30°C	ISO 180/1A	kJ/m²	4/-
Thermal properties		ISO 11357-1	°C	242
Melting temperature, 10°C/min	0.45.45			
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	185
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	62
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	5E+015
Comparative tracking index	Solution A	IEC 60112	V	600
CTI performance level category		Sol A		PLC 0
Dielectric strength	1 mm	IEC 60243-1	kV/mm	20
Burning behaviour		·		· · · · · · · · · · · · · · · · · · ·
Flammability, 1.5 mm	1.5 mm	UL 94		НВ
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100

^{*:} conditioned according to ISO 1110

DOMO Engineering Plastics | Technical Service TechnicalService@domo.org | www.domochemicals.com Date of issue: 03/2024

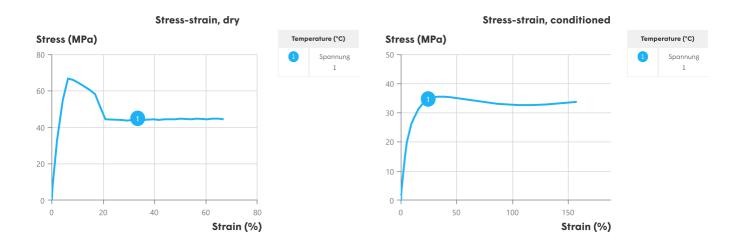
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Processing conditions		
Drying temperature/time	80	
Suggested max moisture	0.2 %	
Rear temperature	250 - 260 °C	
Middle temperature	255 - 265 °C	
Front temperature	265 - 275 °C	
Recommended mould temperature	60 - 80 °C	



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 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.