

TECHNICAL DATA SHEET

TECHNYL C 226M NC

(Previously DOMAMID 6N1 500 NC)

Polyamide 6, nucleated, improved impact resistance, for injection moulding

General

Feature	Improved impact resistance	Nucleated
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	

Product identification

ISO 1043 abbreviation	PA6-I
ISO 16396 designation	PA6-I,M1,S14-030

Condition	Standard	Unit	Value
-----------	----------	------	-------

Physical properties

Condition	Standard	Unit	Value
Density	ISO 1183	g/cm ³	1.1
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.95 - 1.15
Molding shrinkage, normal	ISO 294-4, 2577	%	1 - 1.2
Viscosity number	96% H2SO4 ISO 307	cm ³ /g	145

Mechanical properties

dam / cond.*

Condition	Standard	Unit	Value
Tensile modulus	1 mm/min ISO 527-1/-2	MPa	3000 / -
Strain at break	50 mm/min ISO 527-1/-2	%	20 / -
Yield stress	50 mm/min ISO 527-1/-2	MPa	85 / -
Flexural modulus, ISO 178	2 mm/min ISO 178	MPa	2500 / -
Charpy impact strength, +23°C	+23°C ISO 179/1eU	kJ/m ²	NB / -
Charpy notched impact strength, +23°C	+23°C ISO 179/1eA	kJ/m ²	13 / -
Izod impact strength, +23°C	+23°C ISO 180/1U	kJ/m ²	NB / -
Izod notched impact strength, +23°C	+23°C ISO 180/1A	kJ/m ²	12 / -

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	145
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	60

Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+014

Burning behaviour				
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

*Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored products.
: conditioned according to ISO 1110

Processing conditions	
Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	240 - 280 °C
Recommended mould temperature	60 - 80 °C

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

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.