

TECHNICAL DATA SHEET

TECHNYL C 226F NC
(Previously DOMAMID 6N1 402 NC)

Polyamide 6, nucleated, for injection moulding, natural color

General

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

Product identification

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

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.12
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.4 - 2.6
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.9 - 0.95
Molding shrinkage, normal		ISO 294-4, 2577	%	1 - 1.1
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	170
Melt volume-flow rate, MVR, 2.16 kg	275°C, 2,16 kg	ISO 1133	cm ³ /10 min	70
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

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	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3200 / 900
Stress at break	50 mm/min	ISO 527-1/-2	MPa	65 / 68
Strain at break	50 mm/min	ISO 527-1/-2	%	3.7 / 400
Yield stress	50 mm/min	ISO 527-1/-2	MPa	90 / 85
Yield strain	50 mm/min	ISO 527-1/-2	%	4 / 5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2750 / 800
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	110 / 35
Charpy impact strength, +23°C	+23°C	ISO 179/1eU		NB / NB
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	NB / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	4 / 20
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	2.4 / 2.4

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	156
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	66
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	199

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
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Test run at 23°C if not differently specified, DAM state (dry as moulded).
*: 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.

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