

TECHNICAL DATA SHEET

TECHNYL C 216ML1 NC

(Previously DOMAMID 6UV1 500 NC)

Polyamide 6, UV-stabilized, improved impact resistance, for injection moulding, natural color

General

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

Product identification

ISO 1043 abbreviation	PA6-I
ISO 16396 designation	PA6-I,M1L1,S14-030

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.12
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.4 - 1.6
Molding shrinkage, normal		ISO 294-4, 2577	%	1.4 - 1.6
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	50
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3000 / -
Stress at break	50 mm/min	ISO 527-1/-2	MPa	45 / -
Strain at break	50 mm/min	ISO 527-1/-2	%	30 / -
Yield stress	50 mm/min	ISO 527-1/-2	MPa	75 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2600 / -
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	6 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
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	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+014

*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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