

TECHNICAL DATA SHEET

TECHNYL C 219 MX30 NC

(Previously DOMAMID 6T30H1 NC)

Polyamide 6, 30% mineral filler, heat-aging stabilized, for injection moulding

General

Feature	Heat-aging stabilized
Polymer type	PA6 (Polyamide 6)
Processing technology	Injection molding
Certification	RoHS

Product identification

ISO 1043 abbreviation	PA6-MD30
ISO 16396 designation	PA6,MD30,M1H,S14-060

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.38
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

Physical properties

Mechanical properties dam / cond.*

Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	6000 / 3700
Stress at break	5 mm/min	ISO 527-1/-2	MPa	70 / 50
Strain at break	5 mm/min	ISO 527-1/-2	%	7 / 20
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	5800 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	110 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	40 / 80
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	5 / 10
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	35 / 75
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	5 / 10

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+013

Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
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	90 - 120 °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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