

TECHNICAL DATA SHEET

TECHNYL C 216 V10 NC
(Previously DOMAMID 6G10)

Polyamide 6, 10% glass fiber reinforced, for injection moulding

General

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

Product identification

ISO 1043 abbreviation	PA6-GF10
ISO 16396 designation	PA6,GF10,M1,S14-040

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.19
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.4 - 0.6
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4100 / 2300
Stress at break	5 mm/min	ISO 527-1/-2	MPa	90 / 50
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 10
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3500 / 2000
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	120 / 65
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	35 / 65
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	6 / 14
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	25 / 45
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	5 / 12

Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221

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Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+014
Comparative tracking index	Solution A	IEC 60112	V	600
CTI performance level category		Sol A		PLC 0

Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	650
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 - 260 °C
Recommended mould temperature	80 - 90 °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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