

TECHNICAL DATA SHEET

TECHNYL C 116 V25 BL 5025

(Previously DOMAMID 6LVG25)

Polyamide 6, 25% glass fiber reinforced, improved flowability, for injection moulding

General

Feature	Improved flowability
Polymer type	PA6 (Polyamide 6)
Processing technology	Injection molding
Certification	RoHS
Forms	Pellets

Product identification

ISO 1043 abbreviation	PA6-GF25
ISO 16396 designation	PA6,GF25,M1,S12-080

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.32
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3 - 0.5
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8000 / 4800
Stress at break	5 mm/min	ISO 527-1/-2	MPa	130 / 85
Strain at break	5 mm/min	ISO 527-1/-2	%	2.2 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	6800 / 4200
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	190 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	70 / 90
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	6.5 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	6.5 / -

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	Condition	Standard	Unit	Value
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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	210
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	195
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	205

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 - 270 °C
Recommended mould temperature	90 - 100 °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

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