

## 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

Condition	Standard	Unit	Value
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### Physical properties

Condition	Standard	Unit	Value
Density	ISO 1183	g/cm <sup>3</sup>	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

Condition	Standard	Unit	Value	
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 <sup>2</sup>	70 / 90
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	6.5 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m <sup>2</sup>	6.5 / -

	Condition	Standard	Unit	Value
<b>Thermal properties</b>				
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.*