

TECHNICAL DATA SHEET

TECHNYL C 118 S30 BK 9302

(Previously DOMAMID 6LVB30H2 BK99302)

Polyamide 6, 30% glass beads, heat-aging stabilized, improved flowability, for injection moulding

General

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

Product identification

ISO 1043 abbreviation	PA6-GB30
ISO 16396 designation	PA6,GB30,M1H,S12-040

Condition

Standard

Unit

Value

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.37
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.9 - 1.1
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1.1

Mechanical properties

dam / cond.*

	Condition	Standard	Unit	Value
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4100 / 1200
Stress at break	5 mm/min	ISO 527-1/-2	MPa	50 / 30
Strain at break		ISO 527-1/-2	%	3.5 / 10
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3600 / 1100
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	85 / 30
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	22 / 85
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	3.5 / 8
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	20 / 80
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	3.5 / 7.5

	Condition	Standard	Unit	Value
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	190
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	75
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	200

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	230 - 260 °C			
Recommended mould temperature	80 - 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.