

TECHNICAL DATA SHEET

TECHNYL C 119 V30 BL 5129 XB

DOMAMID 6LVG30H1

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

General

Polymer type	PA6		
Certifications	RoHS	EC 1907/2006 (REACH)	
Feature	improved flowability	organic heat stabilized	
Colors available	black grey	natural white	
Forms	pellets		
Processing technology	injection moulding		

Product identification

ISO 1043 abbreviation	PA6-GF30
ISO 16396 designation	PA6,GF30,MH,S12-090

Condition	Standard	Unit	Value
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Physical properties

	Standard	Unit	Value
Density	ISO 1183	g/cm ³	1.36
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal	ISO 294-4, 2577	%	0.8 - 1.0

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9300 / 5700
Stress at break		ISO 527-1/-2	MPa	155 / 95
Strain at break		ISO 527-1/-2	%	3 / 6
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8500 / 5200
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	240 / 145
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	75 / 90
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	9 / 11
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	70 / 80
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	8 / 11

*: **conditioned according to ISO 1110**

	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	215
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	200
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	210

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

Condition	Standard	Unit	Value
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Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	1.0E13

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Suggested max moisture	0.2 %
Rear temperature	230 - 240 °C
Middle temperature	240 - 250 °C
Front temperature	250 - 270 °C
Recommended melt temperature	230 - 270 °C
Recommended mould temperature	90 - 100 °C

Injection notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.