TECHNYL®

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TECHNICAL DATA SHEET

TECHNYL C 119 V30 WT 1128 XB

(Previously DOMAMID 6LVG30H1 WT91128XB)

Polyamide 6, 30% glass fiber reinforced, 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	EC 1907/2006 (REACH)
Colors available	Black Grey	Natural White
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA6-GF30
ISO 16396 designation	PA6,GF30,M1H,S12-090

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.36
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9300 / 5700
Stress at break		ISO 527-1/-2	MPa	145 / 90
Strain at break		ISO 527-1/-2	%	2.5 / 5.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8500 / 5200
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	220 / 140
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	70 / 85
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	7 / 8.5
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	65 / 75
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	7 / 8.5

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	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
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

**: conditioned according to ISO 1110*

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
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.

Disclaimer