

TECHNICAL DATA SHEET

TECHNYL C 118 M20 V10 BK

(Previously DOMAMID 6LVGM3010H2 BK)

Polyamide 6, 30% glass fiber and mineral filler, heat-aging stabilized, improved flowability, for injection moulding, black

General

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

Product identification

ISO 1043 abbreviation	PA6-(GF10+M20)
ISO 16396 designation	PA6,(GF+MD)30,M1H,S12-080

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.37
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.2
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.4 - 0.6
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	70
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	130

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8500 / 4500
Stress at break	5 mm/min	ISO 527-1/-2	MPa	115 / 70
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 9
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8000 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	40 / 45
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	4.5 / 9

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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	210
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	185
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+014

Test run at 23°C if not differently specified, DAM state (dry as moulded).
*: 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	250 - 290 °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.

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