

TECHNICAL DATA SHEET

TECHNYL C 316 V30 BK
(Previously DOMAMID 6MVG30 BK)

Polyamide 6, 30% glass fiber reinforced, medium viscosity, for injection moulding, black

General

Feature	Medium viscosity
Polymer type	PA6 (Polyamide 6)
Processing technology	Injection molding
Certification	RoHS

Product identification

ISO 1043 abbreviation	PA6-GF30
ISO 16396 designation	PA6,GF30,M1,S18-090

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.36
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3 - 0.5
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1
Viscosity number	96% H2SO4	ISO 307	cm³/g	195

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9500 / 6500
Stress at break	5 mm/min	ISO 527-1/-2	MPa	170 / 110
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / 6
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8200 / 5500
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	260 / 150
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	75 / 90
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / 19
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	70 / 90
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	10 / 19

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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	220
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	215

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+014

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).
*: 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.

Disclaimer

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