

TECHNICAL DATA SHEET

TECHNYL C 218 V30 BK 9262 D
(Previously DOMAMID 6G30H2 BK99262)

Polyamide 6, 30% glass fiber reinforced, heat-aging stabilized, for injection molding

General

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

Product identification

ISO 1043 abbreviation	PA6 (GF-30)
ISO 16396 designation	PA6,GF30,M1H,S14-100

Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm ³	1.38
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.9 - 2.4
Water absorption, saturation			%	6.5

Mechanical properties

dam / cond.*

Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9800 / 5000
Stress at break	5mm/min	ISO 527-1/-2	MPa	160 / 90
Strain at break	5mm/min	ISO 527-1/-2	%	3 / 7
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8200 / 4500
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	245 / 140
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	65 / 75
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	9 / 19
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	55 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	8.5 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	200

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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

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for black 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	235 - 275 °C
Recommended mould temperature	80 - 120 °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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