

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
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

Physical properties

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

Condition

Standard

Unit

Value

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

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.