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TECHNICAL DATA SHEET

TECHNYL C 218 V30 BK 9308 D

(Previously DOMAMID 6G30H2 BK99308)

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

General

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

Product identification

ISO 1043 abbreviation	PA6,GF30
ISO 16396 designation	PA6,GF30,M1H,S14-095

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.38
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9500 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	160 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3.5 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8400 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	210 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	70 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	10 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	60 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	9.5 / -
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+015
Surface resistivity		IEC 62631-3-1	ohm	1E+013

	Condition	Standard	Unit	Value

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	240 - 270 °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.

Disclaimer