

TECHNICAL DATA SHEET

TECHNYL C 218 S30 BK
(Previously DOMAMID 6B30H2 BK)

Polyamide 6, 30% glass beads, heat-aging stabilized, for injection moulding, black

General

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

Product identification

ISO 1043 abbreviation	PA6-GB30
ISO 16396 designation	PA6,GB30,M1H,S14-040

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.36
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.2 - 2.6
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.8 - 1
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4000 / 1100
Stress at break	5 mm/min	ISO 527-1/-2	MPa	60 / 30
Yield stress	5 mm/min	ISO 527-1/-2	MPa	65 / 30
Yield strain	5 mm/min	ISO 527-1/-2	%	2.5 / 10
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3500 / 1000
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	100 / 40
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	30 / 95
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	30 / 30
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	3 / 8.5
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	2.5 / 2.5

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Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
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Burning behaviour

Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min
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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 - 280 °C
Recommended mould temperature	70 - 90 °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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