

TECHNICAL DATA SHEET

TECHNYL C 216 S30 BK

(Previously DOMAMID 6B30 300 BK)

Polyamide 6, 30% glass beads, for injection moulding, black

General

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

Product identification

ISO 1043 abbreviation	PA6-GB30
ISO 16396 designation	PA6,GB30,M1,S14-040

Condition	Standard	Unit	Value
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Physical properties

Density		ISO 1183	g/cm ³	1.37
Molding shrinkage, parallel		ISO 294-4, 2577	%	1 - 1.2
Molding shrinkage, normal		ISO 294-4, 2577	%	1.1 - 1.3
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	95
Viscosity number	96% H ₂ SO ₄	ISO 307	cm ³ /g	145

Mechanical properties

dam / cond.*

Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4200 / -
Stress at break	50 mm/min	ISO 527-1/-2	MPa	75 / -
Strain at break	50 mm/min	ISO 527-1/-2	%	6 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3700 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	30 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	3.3 / -

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).

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Condition	Standard	Unit	Value
<i>*: conditioned according to ISO 1110</i>			

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	60 - 80 °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.

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