

## TECHNICAL DATA SHEET

### TECHNYL C 218 V30 BK D

(Previously DOMAMID 6G30H2 BK)

Polyamide 6, 30% glass fiber reinforced, 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-GF30
ISO 16396 designation	PA6,GF30,M1H,S14-100

Condition	Standard	Unit	Value
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#### Physical properties

Density		ISO 1183	g/cm <sup>3</sup>	1.36
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.9 - 2.4
Water absorption, saturation			%	6.5
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.25 - 0.45
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1.1
Viscosity number	96% H <sub>2</sub> SO <sub>4</sub>	ISO 307	cm <sup>3</sup> /g	145

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	Condition	Standard	Unit	Value dam / cond.*
<b>Mechanical properties</b>				
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9800 / 5900
Stress at break	5 mm/min	ISO 527-1/-2	MPa	180 / 105
Strain at break	5 mm/min	ISO 527-1/-2	%	3.5 / 8
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	7700 / 5200
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	270 / 170
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	80 / 95
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	65 / 70
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / 20
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	8 / 9
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	75 / 80
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	11 / 20
Izod notched impact strength, -30°C	-30°C	ISO 180/1A	kJ/m²	8 / 9

## Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	220
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	210
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	214

## Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
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 mm/min

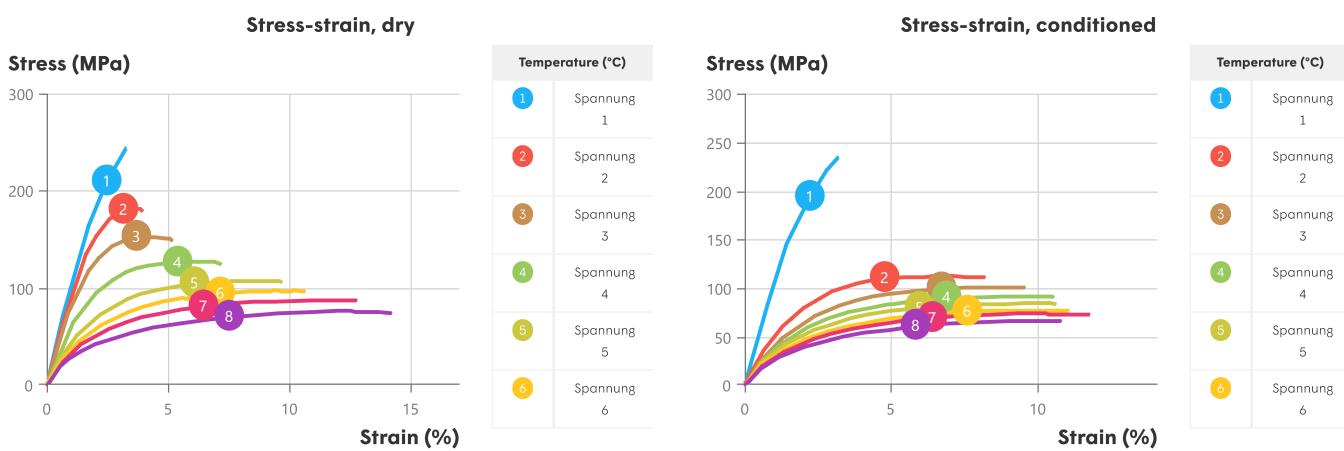
Test run at 23°C if not differently specified, DAM state (dry as moulded).  
\*: conditioned according to ISO 1110

## Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	250 - 290 °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.

### Processing conditions



### Disclaimer

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