

## TECHNICAL DATA SHEET

# TECHNYL C 216 S30 NC

(Previously DOMAMID 6B30 300 NC)

Polyamide 6, 30% glass beads, for injection moulding, natural color

### 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

Condition	Standard	Unit	Value	
Density	ISO 1183	g/cm <sup>3</sup>	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 <sup>3</sup> /10 min	100
Viscosity number	96% H2SO4	ISO 307	cm <sup>3</sup> /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	%	14 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	45 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	3.5 / -

### Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
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	Condition	Standard	Unit	Value
<b>Electrical properties</b>				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+015
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Comparative tracking index	Solution A	IEC 60112	V	550
CTI performance level category		Sol A		PLC 1

## Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650
Glow-wire flammability index, GWFI, 3.0 mm	3.0 mm	IEC 60695-2-12	°C	650
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	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.

## Disclaimer

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