

TECHNICAL DATA SHEET

**TECHNYL SLIDE C 216 Y10 NC**  
(Previously DOMAMID L 6Y10)

Unreinforced polyamide 6, self lubricating, containing molybdenum disulfide, for injection moulding

**General**

Feature	Improved tribological properties	Low friction
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Colors available	Natural	
Forms	Pellets	

**Product identification**

ISO 1043 abbreviation	PA6
ISO 16396 designation	PA6,M1,S14-030

Condition	Standard	Unit	Value
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**Physical properties**

Condition	Standard	Unit	Value
Density	ISO 1183	g/cm <sup>3</sup>	1.14
Molding shrinkage, parallel	ISO 294-4, 2577	%	1.2 - 1.4
Viscosity number	96% H2SO4 ISO 307	cm <sup>3</sup> /g	145

**Mechanical properties**

dam / cond.\*

Condition	Standard	Unit	Value
Tensile modulus	1 mm/min ISO 527-1/-2	MPa	3200 / -
Strain at break	50 mm/min ISO 527-1/-2	%	30 / -
Yield stress	50 mm/min ISO 527-1/-2	MPa	90 / -
Izod notched impact strength, +23°C	+23°C ISO 180/1A	kJ/m <sup>2</sup>	5 / -
Rockwell hardness	ISO 2039/2	ScaleR	110 / -

**Thermal properties**

Condition	Standard	Unit	Value
Melting temperature, 10°C/min	ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa ISO 75	°C	185
Temp. of deflection under load, 1.80 MPa	1.80 MPa ISO 75	°C	85
Vicat softening temperature	50°C/h - 50N ISO 306	°C	205

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<b>Electrical properties</b>				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Comparative tracking index	Solution A	IEC 60112	V	600
CTI performance level category		Sol A		PLC 0

**Burning behaviour**

Flammability, 0.75 mm	0.75 mm	UL 94		HB
Glow-wire flammability index, GWFI	1-3 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), valid for natural colored 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	230 - 260 °C
Recommended mould temperature	40 - 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.*