

## TECHNICAL DATA SHEET

# TECHNYL C 316 NC

(Previously DOMAMID 6MV 303 NC)

Polyamide 6, medium viscosity, for injection moulding, natural color

### General

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

### Product identification

ISO 1043 abbreviation	PA6
ISO 16396 designation	PA6,M1,S18-030

	Condition	Standard	Unit	Value
<b>Physical properties</b>				
Density		ISO 1183	g/cm <sup>3</sup>	1.13
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.4 - 1.6
Molding shrinkage, normal		ISO 294-4, 2577	%	1.4 - 1.6
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm <sup>3</sup> /10 min	45
Viscosity number	96% H2SO4	ISO 307	cm <sup>3</sup> /g	190

### Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	2800 / 1700
Stress at break	50 mm/min	ISO 527-1/-2	MPa	50 / 65
Yield stress	50 mm/min	ISO 527-1/-2	MPa	80 / 20
Yield strain	50 mm/min	ISO 527-1/-2	%	4 / 4.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2500 / 950
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	NB / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	7 / -

	Condition	Standard	Unit	Value
<b>Thermal properties</b>				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	65

<b>Electrical properties</b>				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+014

<b>Burning behaviour</b>				
Flammability, 0.75 mm	0.75 mm	UL 94		HB

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

<b>Processing conditions</b>	
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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