

TECHNICAL DATA SHEET

TECHNYL C 316 NC

DOMAMID 6MV 303 NC

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

General

Polymer type	PA6
Certifications	RoHS
Feature	medium viscosity
Processing technology	injection moulding

Product identification

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

Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.13
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3.0
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 ³ /10 min	45.0
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	190.0

	Condition	Standard	Unit	Value
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 ²	NB
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	7 / -

*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
Thermal properties				
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

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB

	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	1.0E14

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