

TECHNICAL DATA SHEET

TECHNYL A 216 MT25 NC

DOMAMID 66M25

Polyamide 66, 25% mineral filler, for injection moulding

General

Certifications	RoHS
Polymer type	PA66
Feature	not heat stabilized
Processing technology	injection moulding

Product identification

ISO 1043 abbreviation	PA66-MD25
ISO 16396 designation	PA66,MD25,M,S14-040

Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.32
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.3 - 2.5
Water absorption	24 hr, 23°C	ISO 62	%	0.8
Water absorption, saturation			%	5.7
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.1 - 1.3

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4500 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	75 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	10 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	6 / -
Rockwell hardness		ISO 2039/2	ScaleR	110 / -

*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
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	150
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	240

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	1.0E13
Comparative tracking index	Solution A	IEC 60112	V	500.0
CTI performance level category		Sol A		PLC 1

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	260 - 280 °C
Recommended mould temperature	80 - 120 °C

Injection notes

The material is supplied in airtight bags, ready for use.,In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C.,Recommended time 2-4h.