

TECHNICAL DATA SHEET

TECHNYL A 216 MT25 BK

DOMAMID 66M25

Polyamide 66, 25% mineral filler, for injection moulding

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA66	
Colors available	black	
Forms	pellets	
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
Molding shrinkage, parallel	ISO 294-4, 2577	%	1.1 - 1.3

Condition	Standard	Unit	Value
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Mechanical properties

Condition	Standard	Unit	Value	
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
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Thermal properties

Condition	Standard	Unit	Value
Melting temperature, 10°C/min	ISO 11357-1	°C	262
Temp. of deflection under load, 0.45 MPa	ISO 75	°C	220
Temp. of deflection under load, 1.80 MPa	ISO 75	°C	150
Vicat softening temperature	ISO 306	°C	240

Condition	Standard	Unit	Value
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Burning behaviour

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

Condition	Standard	Unit	Value
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Electrical properties

Condition	Standard	Unit	Value
Volume resistivity	IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity	IEC 62631-3-1	ohm	1.0E13
Comparative tracking index	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.