

TECHNICAL DATA SHEET

TECHNYL C 219 MT30 GY R7001

DOMAMID 6M30H1

Polyamide 6, 30% mineral filler, heat-aging stabilized, for injection moulding

General

Polymer type	PA6		
Certifications	RoHS	EC 1907/2006 (REACH)	
Feature	heat-aging stabilized		
Colors available	grey		
Forms	pellets		
Processing technology	injection moulding		

Product identification

ISO 1043 abbreviation	PA6-MD30		
ISO 16396 designation	PA6,MD30,M1H,S14-050		

Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.36
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.9 - 1.1
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1.1
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145.0

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	5000 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	80 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	15 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	4400 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	120 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	75 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	5 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	70 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	5 / -

*: **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, 0.45 MPa	0.45 MPa	ISO 75	°C	185
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	70
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	200

	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
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Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	1.0E13

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	90 - 120 °C		