

TECHNICAL DATA SHEET

TECHNYL C 236SI NC

DOMAMID 6IK2 NC

Polyamide 6, low temperature impact modified, for injection moulding

General

Certifications	RoHS	UL listed product
Polymer type	PA6	
Feature	low temperature impact modified(obs)	UL HB(obs)
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA6-I
ISO 16396 designation	PA6-I,M1,S14-020

Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.07
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.2 - 1.4
Molding shrinkage, normal		ISO 294-4, 2577	%	1.5 - 1.7
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	2350 / 900
Strain at break	50 mm/min	ISO 527-1/-2	%	50 / 50
Yield stress	50 mm/min	ISO 527-1/-2	MPa	60 / 35
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2050 / 800
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	NB
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	NB
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	45 / 105
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	16 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	NB
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	40 / 105
Izod notched impact strength, -30°C	-30°C	ISO 180/1A	kJ/m ²	15 / -
Rockwell hardness		ISO 2039/2	ScaleR	105 / -

*: **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	145
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	55
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	180

Condition	Standard	Unit	Value
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Burning behaviour

UL Yellow Card availability 1	Click here to have access to the UL Yellow Card availability 1 -> E170540-100555102		
Flammability, 0.75 mm	0.75 mm	UL 94	HB
Flammability, 3.0 mm	3.0 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 - 260 °C		
Recommended mould temperature	60 - 90 °C		