

**TECHNICAL DATA SHEET**

**TECHNYL SAFE C 226FFC NC**

(Previously DOMAMID 6N2FC NC)

TECHNYL SAFE C 226FFC NC is a polyamide 6, unfilled, improved flowability, food contact approved for injection moulding. Designed for very fast cycling injection moulding to be used in food contact in industrial consumer good as well as appliance applications.

**General**

Feature	Food contact approved Fast molding cycle	Improved flowability
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card
Applications	Small appliance Industrial Applications large appliance	Consumer good application building / construction
Colors available	Natural	
Forms	Pellets	

**Product identification**

ISO 1043 abbreviation	PA6
ISO 16396 designation	PA6,M1,S14-030

Condition	Standard	Unit	Value
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**Physical properties**

Density		ISO 1183	g/cm <sup>3</sup>	1.13
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.9 - 1.1
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9 - 1.1
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm <sup>3</sup> /10 min	165
Viscosity number	96% H <sub>2</sub> SO <sub>4</sub>	ISO 307	cm <sup>3</sup> /g	145

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	Condition	Standard	Unit	Value dam / cond.*
<b>Mechanical properties</b>				
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3500 / 1900
Stress at break	50 mm/min	ISO 527-1/-2	MPa	70 / 45
Strain at break	50 mm/min	ISO 527-1/-2	%	15 / 25
Yield stress	50 mm/min	ISO 527-1/-2	MPa	85 / 50
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2800 / 1500
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	100 / 50
Charpy impact strength, +23°C	+23°C	ISO 179/1eU		NB / NB
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	4.5 / 6.5

**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	170
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

**Electrical properties**

Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+015

**Burning behaviour**

UL Yellow Card availability 	Click here to have access to the UL Yellow Card → <a href="#">E329653-100985460</a>			
Flammability, 1.5 mm	1.5 mm	UL 94		V2
Flammability, 3.0 mm	3.0 mm	UL 94		V2
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	850
Glow-wire ignition temperature, GWIT	1-3 mm	IEC 60695-2-13	°C	900
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

Test run at 23°C if not differently specified, DAM state (dry as moulded).  
\*: conditioned according to ISO 1110

**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

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

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**Processing conditions**

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**Disclaimer**

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