

TECHNICAL DATA SHEET

TECHNYL SAFE A 222FFC NC
(Previously TECHNYL A 222F NATURAL FA)

TECHNYL SAFE A 222FFC NC is a polyamide 66, unfilled, food contact approved, for injection moulding with a special crystallizing agent for fast cycles. Designed to offer increased productivity associated with excellent dimensional stability and good rigidity of moulded parts requiring food contact compliance in industrial consumer good and appliance applications.

General

Feature	Food contact approved	Fast molding cycle
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS EU No 10/2011 EC 2023/2006	EC 1907/2006 (REACH) EC 1935/2004
Applications	Consumer good application home appliance	Aerosol valve
Colors available	Black	Natural
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66
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Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.14
Water absorption	24 hr, 23°C	ISO 62	%	1.2

Mechanical properties

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	Condition	Standard	Unit	Value
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4000 / -
Stress at break		ISO 527-1/-2	MPa	95 / -
Strain at break		ISO 527-1/-2	%	9 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	4.1 / -

Thermal properties

	Condition	Standard	Unit	Value
Melting temperature, 10°C/min		ISO 11357-1	°C	261

Electrical properties

	Condition	Standard	Unit	Value
Dielectric strength	1 mm	IEC 60243-1	kV/mm	22

*: conditioned according to ISO 1110

Condition	Standard	Unit	Value
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Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	265 - 275 °C
Middle temperature	270 - 280 °C
Front temperature	280 - 285 °C
Recommended mould temperature	60 - 80 °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.

Injection advice

For unfilled polyamides, Domo recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

Disclaimer

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