TECHNYL® SAFE
Food and water contact

DOMO
caring is our formula

TECHNICAL DATA SHEET

TECHNYL SAFE C 216FC V10 NC

TECHNYL SAFE C 216FC V10 NC is a polyamide 6, 10% glass fiber reinforced, food contact approved for injection moulding. Designed to be used in moulded part requiring good mechanical properties and food contact compliance in industrial consumer good as well as appliance applications.

General

Certifications	RoHS EU No 10/2011	EC 1907/2006 (REACH)
Polymer type	PA6	
Feature	food contact approved	not heat stabilized
Applications	small appliance industrial applications building / construction	consumer applications large appliance
Colors available	natural	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA6-GF10
ISO 16396 designation	PA6-GF10

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.2

TECHNYL® SAFE
Food and water contact

DOMO
caring is our formula

TECHNICAL DATA SHEET

TECHNYL SAFE C 216FC V10 NC

	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4800 / -
Stress at break		ISO 527-1/-2	MPa	110 / -
Strain at break		ISO 527-1/-2	%	6 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	4400 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	170 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	45 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	5 / -

: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Burning behaviour				
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100mm/min

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Suggested max moisture	0.2 %
Recommended melt temperature	250 - 290 °C
Recommended mould temperature	80 - 100 °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 reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (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.