

TECHNICAL DATA SHEET

TECHNYL SAFE C 216FC V15 NC
(Previously DOMAMID 6G15FC 300 NC)

TECHNYL SAFE C 216FC V15 NC is a polyamide 6, 15% glass fiber reinforced, food contact approved for injection moulding. Designed to be used in moulded parts requiring food contact compliance in industrial, consumer good as well as appliance applications.

General

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

Product identification

ISO 1043 abbreviation	PA6-GF15
ISO 16396 designation	PA6,GF15,M1,S14-060

Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.24
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.6
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.35 - 0.55
Molding shrinkage, normal		ISO 294-4, 2577	%	0.85 - 1.05
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

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	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	5600 / 3500
Stress at break	5 mm/min	ISO 527-1/-2	MPa	125 / 70
Strain at break	5 mm/min	ISO 527-1/-2	%	3.7 / 6.5
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	4600 / 2400
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	48 / 75
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	40 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	6.5 / 16
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	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	207
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	190
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	210

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+014

Burning behaviour

Flammability, 0.75 mm	0.75 mm	UL 94		HB
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*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	250 - 290 °C
Recommended mould temperature	80 - 100 °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.

Disclaimer

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