TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL PURE A 216E1 V25 BK

TECHNYL A 216E1 V25 BLACK

TECHNYL PURE A 216E1 V25 BK is a polyamide 66, reinforced with 25% of glass fiber, for injection moulding. This grade offers a formula clean from additive that contains halogen and other sustances (ex: phosphorous) that can migrate and generate corrosion issues. Electrofriendly grade. Suitable for laser printing. < 50ppm halogen content garanteed, based on internal elution analysis.

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA66	
Feature	lasermarkable	electro-friendly
Applications	automotive applications electrical/electronic applications fuel cell / H2 system	connectors overmolding
Colors available	black	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA66-GF25

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.32
Water absorption	24 hr, 23°C	ISO 62	%	0.9

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	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8400 / 6300
Stress at break		ISO 527-1/-2	MPa	165 / 120
Strain at break		ISO 527-1/-2	%	3 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	7300 / 5000
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	57 / 87
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	10 / 13
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	8.5 / 15

: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	263
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	255

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Flammability, 3.0 mm	3.0 mm	UL 94		HB
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650
Oxygen index			%	23.0

Processing conditions	
Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	270 - 280 °C
Middle temperature	275 - 285 °C

Processing conditions

Front temperature	280 - 290 °C
Recommended mould temperature	70 - 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.