



TECHNICAL DATA SHEET

TECHNYL PURE A 216E1 V25 BK

(Previously 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

Feature	Lasermarkable	Electro-friendly		
Polymer type	PA66 (Polyamide 66)	PA66 (Polyamide 66)		
Processing technology	Injection molding			
Certification	RoHS	EC 1907/2006 (REACH)		
Applications	Automotive Applications Electrical/Electronic Applications fuel cell / H2 system	Connectors Overmolding		
Colors available	Black			
Forms	Pellets			

Product identification

ISO 1043 abbreviation PA66-GF25

Physical properties			
Density	ISO 1183	g/cm³	1.32
		1 -	

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





TECHNICAL DATA SHEET			TECHNYL PURE A 216E1 V25 BK	
	Condition			
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
Burning behaviour	T			
Flammability, 1.5 mm	1.5 mm	UL 94		НВ
Flammability, 3.0 mm	3.0 mm	UL 94		НВ
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650
Oxygen index			%	23

^{*:} conditioned according to ISO 1110

Processing conditions

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

Disclaimer

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.