

TECHNICAL DATA SHEET

TECHNYL C 216 V25 BK

(Previously DOMAMID 6G25 300 BK)

Polyamide 6, 25% glass fiber reinforced, for injection moulding, black

General

Polymer type	PA6 (Polyamide 6)		
Processing technology	Injection molding		
Certification	RoHS	UL-Yellow Card	

Product identification

ISO 1043 abbreviation	PA6-GF25		
ISO 16396 designation	PA6,GF25,M1,S14-080		


	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.32
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	46
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8400 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	150 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3.2 / -
Yield stress	5 mm/min	ISO 527-1/-2	MPa	150 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	6000 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	60 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	7.5 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
-------------------------------	--	-------------	----	-----

	Condition	Standard	Unit	Value
Burning behaviour				
UL Yellow Card availability 	Click here to have access to the UL Yellow Card → E329653-100458649			
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Flammability, 3.0 mm	3.0 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

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

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.