

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/cm³	1.32
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm³/10 min	46
Viscosity number	96% H2SO4	ISO 307	cm³/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/m²	60 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	7.5 / -

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

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	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.

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