

TECHNICAL DATA SHEET

TECHNYL C 216 V15 BK

(Previously DOMAMID 6G15 300 BK)

Polyamide 6, 15% 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-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	%	0.3 - 0.5
Molding shrinkage, normal		ISO 294-4, 2577	%	0.7 - 0.9
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	60
Viscosity number	96% H ₂ SO ₄	ISO 307	cm ³ /g	145

Mechanical properties

dam / cond.*

	Condition	Standard	Unit	Value
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	6000 / 3000
Stress at break	5 mm/min	ISO 527-1/-2	MPa	115 / 65
Strain at break	5 mm/min	ISO 527-1/-2	%	2.5 / 9
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	4900 / 2500
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	35 / 80
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m ²	35 / 35
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	5 / 10
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m ²	4.5 / 4

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Thermal properties			
Melting temperature, 10°C/min	ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	ISO 75	°C	207
Temp. of deflection under load, 1.80 MPa	ISO 75	°C	190
Vicat softening temperature	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

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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