

TECHNICAL DATA SHEET

TECHNYL C 216 S15 BK

(Previously DOMAMID 6B15 BK)

Polyamide 6, 15% glass beads, for injection moulding, black color

General

Polymer type	PA6 (Polyamide 6)		
Processing technology	Injection molding		
Certification	RoHS	EC 1907/2006 (REACH)	
Colors available	Black	Natural	
Forms	Pellets		

Product identification

ISO 1043 abbreviation	PA6-GB15
ISO 16396 designation	PA6,GB15,M1,S14-040

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.23
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.5
Water absorption, saturation			%	8

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	3500 / 1000
Stress at break		ISO 527-1/-2	MPa	60 / 15
Yield stress		ISO 527-1/-2	MPa	75 / 40
Yield strain		ISO 527-1/-2	%	4 / 12
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	3000 / 900
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	25 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	3 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	20 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	3 / -

TECHNICAL DATA SHEET

TECHNYL C 216 S15 BK

	Condition	Standard	Unit	Value
--	-----------	----------	------	-------

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	170
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	75
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	190

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Comparative tracking index	Solution A	IEC 60112	V	500
CTI performance level category		Sol A		PLC 1

Burning behaviour

Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100
-------------------------------------	--	-----------	--	------

*: 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	230 - 260 °C
Recommended mould temperature	80 - 100 °C

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.