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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/cm³	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/m²	25 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	3 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	20 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	3 / -

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Thermal properties

	Condition	Standard	Unit	Value
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