TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL B 218L V30 BK 44N

TECHNYL B 218L V30 BK 44 N is a copolyamide 66/6, reinforced with 30% of glass fibre, heat stabilized with improved UV ageing resistance, for injection moulding. This grade offers an excellent combination of thermal and mechanical properties, good surface aspect and good UV resistance.

General

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA66/6 copolymer	
Feature	heat-aging stabilized good surface finish	UV stabilized weather resistant
Applications	handles	
Colors available	black	
Forms	pellets	
Processing technology	injection moulding	

Product identification

ISO 1043 abbreviation	PA66/6-GF30
ISO 16396 designation	PA66/6,GF30,MHL1,S14-100

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.37
Water absorption	24 hr, 23°C	ISO 62	%	1.2
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.3
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1.0

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	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	10000 / 5500
Stress at break		ISO 527-1/-2	MPa	180 / 100
Strain at break		ISO 527-1/-2	%	3.1 / 10
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8300 / 4800
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	272 / 170
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	70 / 90
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	10 / 16
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	9.5 / 17

: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	242
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	218

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

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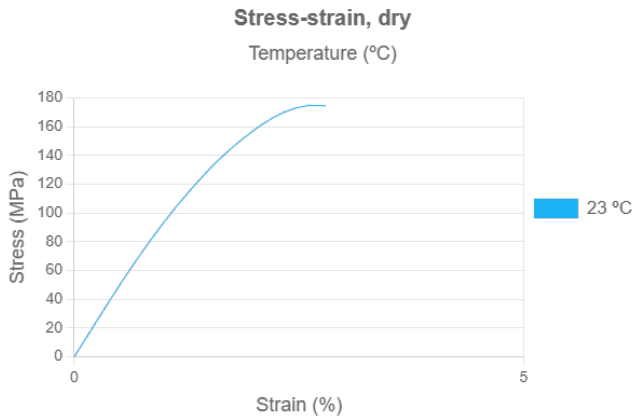
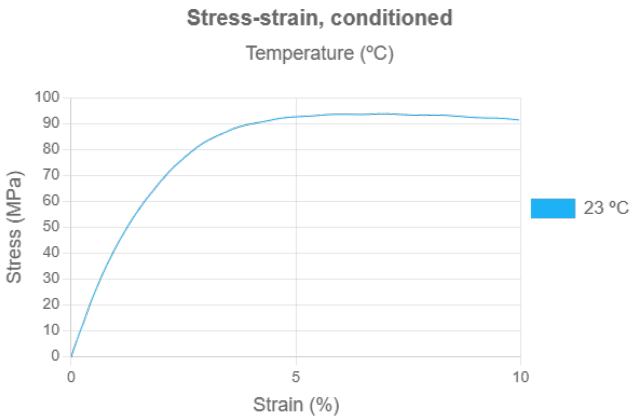
Electrical properties

	Condition	Standard	Unit	Value
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E13
Surface resistivity		IEC 62631-3-1	ohm	3.0E15
Comparative tracking index	Solution A	IEC 60112	V	450.0
CTI performance level category		Sol A		PLC 1
Dielectric strength	1 mm	IEC 60243-1	kV/mm	35.0

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	255 - 265 °C
Middle temperature	260 - 270 °C
Front temperature	270 - 280 °C
Recommended mould temperature	70 - 100 °C





Injection notes

The material is supplied in airtight bags, ready for use.,In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C.,Recommended time 2-4h.

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.,The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

DOMO Engineering Plastics