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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL B 218L V30 BK 44N

TECHNYL B 218L V30 Black 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

Feature	Heat-aging stabilized	Good surface finish
Polymer type	PA66/6 copolymer	
Processing technology	Injection molding	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Handles	
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation PA66/6-GF30

Physical properties				
Density		ISO 1183	g/cm³	1.37
Water absorption	24 hr, 23°C	ISO 62	%	1.2
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.25
Molding shrinkage, normal		ISO 294-4, 2577	%	0.9

dam / cond.* **Mechanical properties** 1 mm/min ISO 527-1/-2 MPa Tensile modulus 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 +23°C kJ/m² 9.5 / 17 Izod notched impact strength, +23°C ISO 180/1A

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	Condition			
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

Electrical properties

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Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	3E+015
Comparative tracking index	Solution A	IEC 60112	V	450
CTI performance level category		Sol A		PLC 1
Dielectric strength	1 mm	IEC 60243-1	kV/mm	35

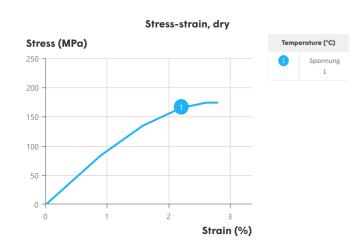
Burning behaviour

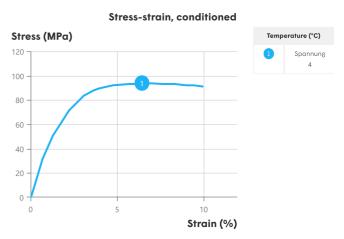
Flammability, 1.5 mm	1.5 mm	UL 94	НВ

^{*:} conditioned according to ISO 1110

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





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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 X16OCrMoV12 (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.

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.