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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL B 218L V20 BK 44N

TECHNYL B 218L V20 BK 44N is a copolyamide 66/6, reinforced with 20% 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	Automotive Applications Handles Outdoor Applications		
Colors available	Black	Grey	
Forms	Pellets		

Product identification

F20
il

Physical properties				
Density		ISO 1183	g/cm³	1.29
Water absorption	24 hr, 23°C	ISO 62	%	1.2
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.35
Molding shrinkage, normal		ISO 294-4, 2577	%	1

Mechanical properties			dam / cond.*	
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	7000 / 4500
Stress at break		ISO 527-1/-2	MPa	140 / 85
Strain at break		ISO 527-1/-2	%	3/-
Flexural modulus, ISO 178	2 mm/min	ISO 178	МРа	5800 / 3500
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	45 / 83
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	7/9
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	8 / 13

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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	230
Electrical properties				
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	32
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		НВ
Flammability, 1.5 mm	1.5 mm	UL 94		НВ

^{*:} conditioned according to ISO 1110

Processing conditions

Oxygen index

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.

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Disclaimer

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