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TECHNICAL DATA SHEET

TECHNYL B 218L V20 GY 2527A CF

TECHNYL B 218L V20 GY 2527A CF 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 Outdoor Applications	Handles
Colors available	Black	Grey
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA66/6-GF20

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.29
Water absorption	24 hr, 23°C	ISO 62	%	1.2
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	7000 / 4500
Stress at break		ISO 527-1/-2	MPa	120 / 80
Strain at break		ISO 527-1/-2	%	2.1 / 9
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	5800 / 3500
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	30 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	3.2 / -
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	211

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Burning behaviour

	Condition	Standard	Unit	Value
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Oxygen index			%	23

**: 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

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.

Disclaimer