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TECHNICAL DATA SHEET

TECHNYL A 218HP V50 BK 21N

TECHNYL A 218HP V50 BK 21N is a polyamide 66, reinforced with 50% of glass fibre, heat stabilized, for injection moulding. This grade is designed to offer a long term heat resistance and is suitable to work in environments characterized by a very high temperature. (200°C)

General

Feature	Heat-aging stabilized heat resistant	High stiffness	
Polymer type	PA66 (Polyamide 66)		
Processing technology	Injection molding		
Certification	RoHS	EC 1907/2006 (REACH)	
Applications	Automotive Applications		
Colors available	Black		
Forms	Pellets		

Product identification

Physical properties			
Density	ISO 1183	g/cm³	1.54
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.3
Molding shrinkage, normal	ISO 294-4, 2577	%	0.6

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Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	16000 / 10900
Stress at break		ISO 527-1/-2	MPa	208 / 143
Strain at break		ISO 527-1/-2	%	2.5 / 3.8
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	13800 / 10000
Flexural modulus, ASTM D790	2 mm/min	ASTM D790	MPa	13500 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	320 / 230
Flexural strength, ASTM D790	2 mm/min	ASTM D790	MPa	280 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	85 / 94
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	17 / 23
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	80 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	20 / -

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	260
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	253

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			

conditioned according to ISO 1110

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	270 - 280 °C
Middle temperature	280 - 290 °C
Front temperature	280 - 300 °C
Recommended mould temperature	70 - 100 °C

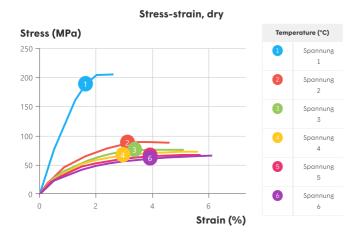
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Injection notes

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 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

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