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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL A 208F BK 21N

TECHNYL A 208F BK 21N is an unreinforced polyamide PA66, heat stabilized, high fluidity, fast cycling grade, for injection moulding. This grade offers two main advantages: its good resilience and its excellent filling quality of moulds.

General

Feature	Heat-aging stabilized	Fast molding cycle
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card European Railways Certifications EN 45545-2
Applications	Fasteners	
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation PA66

Physical properties				
Density		ISO 1183	g/cm³	1.14
Water absorption	24 hr, 23°C	ISO 62	%	1.2

Mechanical properties			dam / cond.*	
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	3200 / 1600
Stress at break		ISO 527-1/-2	MPa	60 / 40
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	2900 / 1300
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	4.5 / 10
lzod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	4.5 / 12

Thermal properties

Melting temperature, 10°C/min		ISO 11357-1	°C	263
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	75

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Page 1

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Electrical properties				
Dielectric strength	1 mm	IEC 60243-1	kV/mm	22

Burning behaviour

UL Yellow Card availability 🖲	Click here to have access to the UL Yellow Card → QMFZ2.E4471			Card → <u>QMFZ2.E44716</u>
Flammability, 0.40 mm	0.40 mm	UL 94		V2
Flammability, 0.75 mm	0.75 mm	UL 94		V2
Flammability, 1.5 mm	1.5 mm	UL 94		V2
Flammability, 3.0 mm	3.0 mm	UL 94		V2
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	800

^{*:} conditioned according to ISO 1110

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	265 - 275 °C
Middle temperature	270 - 280 °C
Front temperature	280 - 285 °C
Recommended mould temperature	60 - 80 °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 unfilled polyamides, Domo recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (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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Page 2