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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL A 218Z V30 BK 34 N

TECHNYL A 218Z V30 BK 34 N is a polyamide 66, reinforced with 30% of glass fibre, heat stabilized. This grade has been developped for injection moulding using gas injection technology. This grade combines short time cycle and excellent internal surface aspect.

General

Feature	Heat-aging stabilized	Good surface finish
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS	European Railways Certifications EN 45545-2
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation PA66-GF30

Physical properties			
Density	ISO 1183	g/cm³	1.34
Molding shrinkage, parallel	ISO 294-4, 2577	%	0.45
Molding shrinkage, normal	ISO 294-4, 2577	%	1.9

dam / cond.* **Mechanical properties** 1 mm/min ISO 527-1/-2 MPa 8000 / -Tensile modulus 140 / -Stress at break ISO 527-1/-2 MPa ISO 527-1/-2 3/-Strain at break % Flexural modulus, ISO 178 2 mm/min **ISO 178** MPa 7200 / -Flexural strength, ISO 178 2 mm/min **ISO 178** MPa 220/-45 / -Charpy impact strength, +23°C +23°C ISO 179/1eU kJ/m² Charpy notched impact strength, +23°C +23°C ISO 179/1eA kJ/m^2 4.5 / -Izod impact strength, +23°C +23°C ISO 180/1U kJ/m² 50 / -4/-+23°C ISO 180/1A kJ/m² Izod notched impact strength, +23°C

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Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	240

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	270 - 280 °C
Middle temperature	275 - 285 °C
Front temperature	280 - 290 °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

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