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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL A 218 MZ15 V25 BK 31N

TECHNYL A 218 MZ15 V25 BK 31N is a polyamide 66, reinforced with 25% of glass fibre and 15% of mineral filler, heat stabilized, for injection moulding. This grade is available in black color. This grade offers an excellent combination between thermal and mechanical properties as well as a low warpage of molded parts.

General

Feature	Heat-aging stabilized	Low warpage	
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

ISO 1043 abbreviation	PA66-GF25+MD15	

Physical properties							
Density		ISO 1183	g/cm³	1.47			
Water absorption	24 hr, 23°C	ISO 62	%	1			
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3			
Molding shrinkage, normal		ISO 294-4, 2577	%	1.1			

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TECHNICAL DATA SHEET			TECHNIL	TECHNIL A 210 MZ15 VZ5 BK 31N	
	Condition				
Mechanical properties				dam / cond.	
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	10000 / 7500	
Stress at break	5mm/min	ISO 527-1/-2	МРа	140 / 115	
Strain at break	5mm/min	ISO 527-1/-2	%	2/3	
Flexural modulus, ISO 178	2 mm/min	ISO 178	МРа	9000 / -	
Flexural modulus, ASTM D790	2 mm/min	ASTM D790	МРа	9600 / -	
Flexural strength, ISO 178	2 mm/min	ISO 178	МРа	210 / -	
Flexural strength, ASTM D790	2 mm/min	ASTM D790	МРа	220 / -	
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	45 / 55	
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	5/7	
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	4/6	
Melting temperature, 10°C/min		ISO 11357-1	°C	262	
Melting temperature, 10°C/min		ISO 11357-1	°C	262	
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	245	
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	
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100	
*: 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

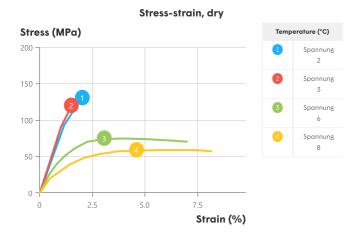
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Injection notes

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

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.