



**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	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			





	Standard 60 527-1/-2	Unit	Value dam / cond.
	SO 527-1/-2	MPa	dam / cond.
	SO 527-1/-2	MPa	
min IS		IVIFU	10000 / 7500
	SO 527-1/-2	MPa	140 / 115
min IS	SO 527-1/-2	%	2/3
/min IS	SO 178	MPa	9000 / -
/min A	STM D790	МРа	9600 / -
/min IS	SO 178	МРа	210 / -
/min A	STM D790	МРа	220 / -
15	SO 179/1eU	kJ/m²	45 / 55
15	SO 179/1eA	kJ/m²	5/7
15	SO 180/1A	kJ/m²	4/6
		°C	262 245
1Pa IS	SO 75	°C	240
-	11.04		LID
			НВ
F	MVSS 302		<100
	/min	/min ISO 178 /min ASTM D790 /min ISO 178 /min ASTM D790 ISO 179/1eU ISO 179/1eA ISO 180/1A  ISO 11357-1 IPa ISO 75	ISO 178

Recommended mould temperature

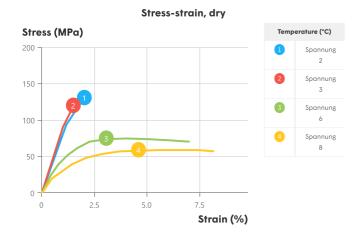
70 - 100 °C





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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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