



TECHNYLSTAR S 218 MZ20 V10 BLACK 2N

Description

TECHNYLSTAR™ S 218 MZ20 V10 Black 2N is based on a patented high flow polyamide 6 resin (TechnylStar), heat stabilized, reinforced with 20% of mineral filler and 10% of glass fibre, for injection moulding. This product is available in black color.

Key Properties

High flow
Easy processing
Excellent surface aspect
Low warpage

Benefits

Due to its outstanding flow characteristics, the product provides a significant productivity improvement and allows more freedom in mould and part design versus a standard polyamide solutions.

Applications

It is suitable for applications where a compromise of rigidity and dimensional stability is required, as engine cover.

Properties

Typical values of properties are for black grades

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Density	ISO 1183/A	g/cm ³	1,36	
Molding shrinkage Parallel	RHODIA	%	0,54	
Molding shrinkage normal or perpendicular	RHODIA	%	1,08	
Molding Shrinkage Isotropy	RHODIA		0,50	
Mechanical				
Tensile Modulus	ISO 527 Type 1A	MPa	7800	
Tensile strength at break	ISO 527 Type 1A	MPa	110	
Elongation at break	ISO 527 Type 1A	%	2,80	
Charpy notched impact strength (23 °C)	ISO 179/1eA	kJ/m ²	3,4	
Charpy unnotched impact strength (23 °C)	ISO 179/1eU	kJ/m ²	35	
Izod notched impact strength (23 °C)	ISO 180/1A	kJ/m ²	3,7	
Izod unnotched impact strength	ISO 180/1U	kJ/m ²	32	
Thermal				
Melting Temperature	ISO 11357	°C	222	
Heat deflection temperature (1,8 MPa)	ISO 75/Af	°C	186	
Specific				
Identification code				PA6-(MD20+GF10)

d.a.m. = dry as moulded
Cond = conditioned

Disclaimer

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANDABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Rhodia is at their disposal to supply any additional information.

Processing Guide

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.

Recommended Maximum water content: 0,2 %

Drying conditions: 80 °C

Recommended moulding conditions

Barrel Temperatures:

- feed zone 220 - 230 °C
- compression zone 245 - 250 °C
- mixing zone 245 - 250 °C

Mould temperatures: 80 °C

Steel advice for tools For glass fibers reinforced polyamide, Rhodia recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion. For example: Z38CDV5W or Z160CDV12.

Safety information

Detailed information regarding safety are available on the safety data sheet (SDS).
SDS is sent with the first material order, or available by contacting our customer services

Regulations compliance

Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC

This grade complies with RoHS directive 2002/95/EC

Unless specified, this grade is not suitable for food contact, medical devices or toy applications

Customer services

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
- Part testing
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design

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