TECHNYL® C 218 MZ20 V10 BLACK Z

Product Datasheet - March 2007

Description

Polyamide PA6, reinforced 20 % mineral filler and 10 % of glass fibre, heat stabilized, for injection moulding.

Product Applications

TECHNYL C 218 MZ20 V10 offers an excellent planarity of the end product, high mechanical properties and a high dimensional stability.
This grade is commonly used in the automotive industry to mould large parts with a low warpage, such as: car body parts, engine covers, housings.

This product is available in black.

Processing

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content less than 0.2% with a dehumidified air drying equipment at approx. 80°C.

Recommended moulding conditions :

- Barrel temperatures :

feed zone	220 - 240°C
compression zone	230 - 250°C
front zone	250 - 260°C

- Mould temperatures: 80 to 100 °C

For more detailed information, please refer to the technical sheet "Injection moulding".

Safety

Please refer to the Safety Data Sheet 6PTHDT998FS

Rhodia

Engineering Plastics

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TECHNYL® C 218 MZ20 V10 BLACK Z

The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Density	ISO 1183-A	g/cm3	1.36	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.54	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.95	-
Molding Shrinkage Isotropy	RHODIA-EP		0.57	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	7400	4500
Tensile strain at break	ISO 527 type 1 A	%	3.30	5.5
Tensile strength at break	ISO 527 type 1 A	MPa	100	60
Flexural modulus	ISO 178	MPa	9300	-
Flexural maximum stress	ISO 178	MPa	255	-
Charpy notched impact strength	ISO 179/1eA	kJ/m2	14.10	10
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	60	85
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	92	-
Izod notched impact strength	ISO 180/1A	kJ/m2	15	-
Izod unnotched impact strength	ISO 180/1U	kJ/m2	82	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	205	-

Identification Code : >PA6-(MD20+GF10)<

The information contained in this document is supplied in good faith. It is based on the extent of our knowledge of the products as listed, and on the tests and experiments carried out in our laboratories. It is to be used only as an indication and shall not be construed in any way as a format commitment or warranty of our part. Compliance of our products with your conditions or use can only be determined pursuant to your own prior appropriate list. The listed values of properties are for natural grade, if not otherwise specified.

d.a.m*.

Cond.**

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