TECHNYL® C 218 MT25 V20

Product Datasheet - June 2007

Description

Polyamide PA6, 25% mineral filled and 20% of glass fibre reinforced, heat stabilized, for injection moulding.

Product Applications

Excellent planarity of the end product, high mechanical properties and high dimensional stability, are the main characteristics that make this grade available for :
- Hub-cap for car, air conveyors, broad surface casings of electric tools.

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	230 - 240°C
compression zone	250 - 255°C
front zone	250 - 255°C

- Mould temperatures: 100 - 120 °C

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

Safety

Please refer to the Safety Data Sheet

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The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.90	-
Density	ISO 1183-A	g/cm3	1.52	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.30	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.5	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	10200	7000
Elongation at break	ISO 527 type 1 A	%	2.40	3
Tensile strength at break	ISO 527 type 1 A	MPa	130	75
Charpy notched impact strength	ISO 179/1eA	kJ/m2	5.20	13
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	38	45
Izod notched impact strength	ISO 180/1A	kJ/m2	4.5	11
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	210	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	4	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.09
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	-	25

Identification Code : >PA6-(MD+GF)45<

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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