TECHNYL ® A 238C M25 BLACK

Product Datasheet - June 2007

Description

Polyamide 66, reinforced with mineral filler, heat stabilized, conductive, with improved impact resistance, for injection moulding.
This material combines an outstanding balance of properties: thermal resistance (high HDT), toughness, electrical conductivity, dimensional stability due to the low coefficient of thermal expansion and low moisture absorption.

Product Applications

TECHNYL ® A 238C M25 BLACK is suitable for exterior automotive body panels production, in-line or online painted through the typical electrostatic painting system.
The enhanced uniformity of the material surface resistivity (1 GigaOhm) has been designed to achieve on painted components the “class “A” high quality surface aspect.
On parts like front fenders the material shows excellent performances on impact at both ambient and below zero temperatures.

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 of less than 0.15%.
Drying in a dehumidifying drier for 2 to 6 hours at 80 °C is recommended before processing.
TECHNYL ® A 238C M25 BLACK can be moulded on standard injection moulding machines equipped with universal or PA type screws (no need of special screws).
Melt temperature: 280 to 300 °C
Mould temperature: 80 to 120 °C

Safety

Please refer to the Safety Data Sheet

Postal Adress Rhodia Polyamide Engineering Plastics : Avenue Ramboz BP 64 69192 Saint-Fons Cedex France Phone : +33.4.72.89.27.00 Fax : +33.4.72.89.27.01.
Company Name : Rhodia Operations Registered Office : 40, rue de la Haie-Coq 93306 Aubervilliers Cedex France - Phone : + 33 1 53 56 50 00 Fax : +33 1 53 56 55 55.

TECHNYL ® A 238C M25 BLACK

The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.60	-
Density	ISO 1183-A	g/cm3	1.23	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	1.60	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.70	-
Molding Shrinkage Isotropy	RHODIA-EP		0.94	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3070	-
Elongation at break	ISO 527 type 1 A	%	14	-
Tensile strength at break	ISO 527 type 1 A	MPa	49	-
Charpy notched impact strength	ISO 179/1eA	kJ/m2	8.20	-
Charpy notched impact strength (-30°C)	ISO 179/1eA	kJ/m2	5.70	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	160	-
Charpy unotched impact strength (-30°C)	ISO 179/1fU	kJ/m2	150	-
Thermal				
Melting Temperature	ISO 11357	°C	260	-
Heat deflection temperature 0,45 Mpa	ISO 75/Bf	°C	190	-
Electrical				
Surface resistivity	IEC 60093	Ohm	10E08	-

Identification Code : >PA66-MD25<

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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