TECHNYL® A 218 MT25 V15

Product Datasheet - May 2006

Description

Polyamide 66, reinforced with 15% of glass fibre and 25% of mineral filler, heat stabilized, for injection moulding.

Product Applications

TECHNYL A 218 MT25 V15 is recommended in all industrial parts, offering a good combination between thermal and mechanical properties. 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 natural and 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 0,2% with a dehumidified air drying equipment at approx 80°C.
Recommended moulding conditions:
Barrel temperatures:
- feed zone 260 - 270°C
- compression zone 270 - 280°C
- front zone 280 - 290°C

Mould temperatures: 80 at 100°C
For more detailed information , please refer to the technical sheet Injection moulding.

Safety

Please refer to the Safety Data Sheet UJ2OA07B8FS

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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	%	0.70	-
Density	ISO 1183-A	g/cm3	1.47	-
Molding Shrinkage Isotropy	RHODIA-EP		0.75	-
Molding shrinkage Parallel (ISO 294-4)	ISO 294-4	%	0.60	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	9800	5700
Tensile strength at yield	ISO 527 type 1 A	MPa	130	73
Tensile strain at yield	ISO 527 type 1 A	%	2.5	7
Tensile strain at break	ISO 527 type 1 A	%	2.5	9
Tensile strength at break	ISO 527 type 1 A	MPa	130	70
Flexural modulus	ISO 178	MPa	9000	4500
Charpy notched impact strength	ISO 179/1eA	kJ/m2	3	3.5
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	40	60
Izod notched impact strength	ISO 180/1A	kJ/m2	3.5	4.5
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	240	-
Coef. of Linear thermal expension normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	3.5	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.08
Volume resistivity	IEC 60093	E14.Ohm.cm	80	30
Surface resistivity	IEC 60093	E14.Ohm	5	0.030000
Dielectric strength	IEC 60243	kV/mm	35	32
Comparative tracking index sol. A	IEC 60112	Volt	475	525

Identification Code : >PA66-(MD+GF)40<

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 = Dry As Moulded.

** Cond. = Conditioned according ISO 1110.

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