

## TECHNYL® A 218 MT15 V25 BLACK 21 N

Product Datasheet - June 2007

### Description

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

### Product Applications

TECHNYL® A 218 MT15 V25 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: rocker cover, car body parts, engine covers.

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 0,2% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions:

Barrel temperatures:

- feed zone            260 - 265°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 4LF8H7P78FS

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The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
Water absorption (24 h at 23°C)	ISO 62	%	1.40	-
Density	ISO 1183-A	g/cm3	1.47	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.65	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.20	-
Molding Shrinkage Isotropy	RHODIA-EP		0.54	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	9000	5500
Elongation at break	ISO 527 type 1 A	%	2.40	5
Tensile strength at break	ISO 527 type 1 A	MPa	140	100
Flexural modulus	ISO 178	MPa	8500	5000
Charpy notched impact strength	ISO 179/1eA	kJ/m2	4	6
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	45	80
Izod notched impact strength	ISO 180/1A	kJ/m2	4	6.5
<b>Flamability</b>				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	240	-
Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C)	ISO 11359	E-5 / °C	3.5	-
<b>Electrical</b>				
Relative permittivity	IEC 60250		3.70	4
Dissipation factor	IEC 60250		0.02	0.08
Volume resistivity	IEC 60093	Ohm.cm	30E14	30E14
Surface resistivity	IEC 60093	Ohm	50E13	30E11
Dielectric strength	IEC 60243	kV/mm	35	35
Comparative tracking index sol. A	IEC 60112	Volt	425	425

## 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\*.

Cond.\*\*



CHALLENGING BOUNDARIES

Engineering Plastics