

## TECHNYL® AR 218 MZ15 V25 BLACK 31N

Product Datasheet - July 2007

### Description

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

### Product Applications

TECHNYL® AR 218 MZ15 V25 BLACK 31N 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, 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 condition:

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 H198GS8FS

# TECHNYL® AR 218 MZ15 V25 BLACK 31N

The values of properties are for black grade

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
Density	ISO 1183-A	g/cm3	1.47	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.66	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.01	-
Molding Shrinkage Isotropy (Rhodia EP)	RHODIA-EP		0.65	-
Molding shrinkage normal or perpendicular (ISO 294-4)	ISO 294-4	%	0.40	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	10000	-
Elongation at break	ISO 527 type 1 A	%	2	-
Tensile strength at break	ISO 527 type 1 A	MPa	140	-
Flexural modulus	ISO 178	MPa	9000	-
Flexural maximum stress	ISO 178	MPa	210	-
Charpy notched impact strength	ISO 179/1eA	kJ/m2	5	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	45	-
Izod notched impact strength	ISO 180/1A	kJ/m2	4	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	240	-

## Identification Code : >Recycled 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.\*\*



Engineering Plastics

CHALLENGING BOUNDARIES

