

## TECHNYL® A 218 V25 NATURAL B

Product Datasheet - November 2004

### Description

Polyamide 66, reinforced with 25% of glass fibre, specially stabilized to improve its resistance to oils and greases, for injection moulding.

### Product Applications

This product is recommended for moulded parts exposed to high temperatures and in contact with oils and greases.

Bearing housings are a typical example for which this formulation is suitable.

TECHNYL® A 218 V25 is approved by major bearing manufacturers.

This product is available in natural.

### 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 :		60 at 80°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.**
<b>Physical</b>				
Water absorption (24 h at 23°C)	ISO 62	%	0.90	-
Density	ISO 1183-A	g/cm3	1.32	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.40	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.85	-
Molding Shrinkage Isotropy	RHODIA-EP		0.47	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	9200	-
Tensile strain at break	ISO 527 type 1 A	%	3	-
Tensile strength at break	ISO 527 type 1 A	MPa	185	-
Flexural modulus	ISO 178	MPa	7800	-
Flexural maximum stress	ISO 178	MPa	280	-
Charpy notched impact strength	ISO 179/1eA	kJ/m2	10	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	60	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	255	-
Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C)	ISO 11359	E-5 / °C	2.70	-

## Identification Code : >PA66-GF25<

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.

