

## TECHNYL® A 216 V10

Product Datasheet - June 2007

### Description

Polyamide PA66, reinforced with 10% of glass fibre, for injection moulding.

### Product Applications

TECHNYL A 216 V10 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. This grade is used in:

- Automotive industry,
- Manufacture of components for electrical tools,
- Transport and building.

This product is available in natural, and black, and in colours on request.

### 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 - 288°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 2SNC7LDD8FS

# TECHNYL® A 216 V10

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	%	1.20	-
Density	ISO 1183-A	g/cm3	1.21	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.90	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.30	-
Molding Shrinkage Isotropy	RHODIA-EP		0.69	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	5000	3200
Tensile strength at yield	ISO 527 type 1 A	MPa	105	70
Elongation at break	ISO 527 type 1 A	%	4	10
Tensile strength at break	ISO 527 type 1 A	MPa	105	70
Flexural modulus	ISO 178	MPa	4500	2400
Charpy notched impact strength	ISO 179/1eA	kJ/m2	5	5.5
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	35	42
Izod notched impact strength	ISO 180/1A	kJ/m2	5	8
<b>Flamability</b>				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Limit Oxygen index	ISO 4589		25	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	232	-
Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C)	ISO 11359	E-5 / °C	4	-
<b>Electrical</b>				
Dissipation factor	IEC 60250		0.01	0.10
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	Ohm	60E13	10E11
Dielectric strength	IEC 60243	kV/mm	31	30
Comparative tracking index sol. A	IEC 60112	Volt	600	600
Comparative tracking index sol. B	IEC 60112	Volt	525	-

## Identification Code : >PA66-GF10<

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