

## TECHNYL® A 205F NATURAL P

Product Datasheet - August 2006

### Description

Unreinforced polyamide 66, high fluidity, fast cycling grade, with improved white index, for injection moulding

### Product Applications

TECHNYL® A 205F NATURAL P offers two main advantages: excellent filling qualities and UL 94 V2 under 0.4 mm. It is particularly suitable for the moulding of long parts with thin wall sections, such as:

- cable ties and fasteners,
- connectors.

This product is available in natural, 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 270 - 275°C
- compression zone 280 - 285°C
- front zone 285 - 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 TGJ1H7HT8FS

# TECHNYL® A 205F NATURAL P

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	1.14	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	1.90	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.90	-
Molding Shrinkage Isotropy	RHODIA-EP		1	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	3200	1600
Tensile strength at yield	ISO 527 type 1 A	MPa	85	50
Tensile strain at yield	ISO 527 type 1 A	%	4	10
Tensile strength at break	ISO 527 type 1 A	MPa	60	40
Flexural modulus	ISO 178	MPa	2900	1300
Flexural maximum stress	ISO 178	MPa	120	50
Charpy notched impact strength	ISO 179/1eA	kJ/m2	4.5	8
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	4.5	6
<b>Flamability</b>				
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	850	-
Limit Oxygen index	ISO 4589		28.5	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
<b>Electrical</b>				
Relative permittivity	IEC 60250		2.90	3
Dissipation factor	IEC 60250		0.03	0.08
Volume resistivity	IEC 60093	E14.Ohm.cm	10	0.100000
Surface resistivity	IEC 60093	E14.Ohm	5	0.100000
Dielectric strength	IEC 60243	kV/mm	27	26
Comparative tracking index sol. A	IEC 60112	Volt	600	600
Comparative tracking index sol. B	IEC 60112	Volt	550	-

## Identification Code : >PA66<

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.



Engineering Plastics

