

## TECHNYL® A 246M

Product Datasheet - June 2007

### Description

Unreinforced and modified polyamide 66, with very high impact resistance even at low temperature, for injection moulding.

### Product Applications

TECHNYL® A 246M offers an excellent notched impact resistance at low temperature make it suitable for:

- sports and leisure applications, for shoe soles, ski components, ski and surf bindings,
- toy applications, such as, the bumper of a remote-controlled car.

This product is available in natural, white and 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 250 - 270°C
- compression zone 260 - 280°C
- front zone 270 - 290°C

Mould temperatures : 60 - 80°C

For more detailed information , please refer to the technical sheet "Injection moulding".

### Safety

Please refer to the Safety Data Sheet H5R8J8D08FS

# TECHNYL® A 246M

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	%	1.05	-
Density	ISO 1183-A	g/cm3	1.08	-
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	1900	600
Tensile strength at yield	ISO 527 type 1 A	MPa	47	42
Elongation at yield	ISO 527 type 1 A	%	20	210
Tensile strength at break	ISO 527 type 1 A	MPa	44	35
Flexural modulus	ISO 178	MPa	1800	700
Flexural maximum stress	ISO 178	MPa	70	27
Charpy notched impact strength	ISO 179/1eA	kJ/m2	55	100
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Charpy unnotched impact strength (-30°C)	ISO 179/1fU	kJ/m2	16	-
Izod notched impact strength	ISO 180/1A	kJ/m2	60	80
Izod notched impact strength (-30°C)	ISO 180/1A	kJ/m2	22	-
<b>Flamability</b>				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Limit Oxygen index	ISO 4589		24.5	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	65	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	7	-
<b>Electrical</b>				
Relative permittivity	IEC 60250		3.20	4
Dissipation factor	IEC 60250		0.02	0.06
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	Ohm	10E13	10E12
Dielectric strength	IEC 60243	kV/mm	30	38
Comparative tracking index sol. A	IEC 60112	Volt	575	600
Comparative tracking index sol. B	IEC 60112	Volt	450	-
<b>Specific</b>				
IMDS id number	Rhodia		4666047/2	-

## 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\*.

Cond.\*\*



Engineering Plastics

