

## TECHNYL® B 218L V30 BLACK 44 N

Product Datasheet - February 2010

### Description

Copolyamide 66/6, reinforced with 30% of glass fibre, for injection moulding, heat stabilized with improved UV ageing resistance.

### Product Applications

TECHNYL B 218L V30 noir 44N is used in all sectors of industry, offering an excellent combination of thermal and mechanical properties. This grade is commonly used for automotive applications which require a good surface appearance and a good UV resistance, such as:

- external mirror housings and door handles.

This product is available in black color.

### 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 - 270°C
- front zone 270 - 280°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 H97DMG8R8FS

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The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
Water absorption (24 h at 23°C)	ISO 62	%	0.95	-
Density	ISO 1183-A	g/cm3	1.37	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.5	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.70	-
Molding Shrinkage Isotropy (Rhodia EP)	RHODIA-EP		0.71	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	9800	5900
Elongation at break	ISO 527 type 1 A	%	3	8
Tensile strength at break	ISO 527 type 1 A	MPa	185	115
Flexural modulus	ISO 178	MPa	8300	4700
Flexural maximum stress	ISO 178	MPa	230	140
Charpy notched impact strength	ISO 179/1eA	kJ/m2	11	16
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	80	92
Izod notched impact strength	ISO 180/1A	kJ/m2	11	19
<b>Flamability</b>				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	242	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	230	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	2.60	-
<b>Electrical</b>				
Relative permittivity	IEC 60250		3.70	-
Dissipation factor	IEC 60250		0.01	-
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	Ohm	30E13	10E10
Dielectric strength	IEC 60243	kV/mm	35	34
Comparative tracking index sol. A	IEC 60112	Volt	450	325
<b>Specific</b>				
IMDS id number	Rhodia		4669577 / 3	-

## Identification Code : >PA66/6-GF30<

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d.a.m\*.

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