

## TECHNYL® A 60G1 V30

Product Datasheet - April 2007

### Description

Flame retardant Polyamide PA66 reinforced with 30% of glass fibre, for injection moulding.

### Product Applications

This Red Phosphorous and Halogen free flame retardant grade, combines excellent all-round mechanical properties with outstanding flame retardancy and electrical performance. This product is ideally suited for industrial controls and power distribution applications such as MCBs, switches, etc.

This product is available in Natural and Black. Specific light or dark colors can be developed upon 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 - 275°C

- compression zone 275 - 280°C

- front zone 280 - 285°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



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The values of properties are for the natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
Water absorption (24 h at 23°C)	ISO 62	%	0.73	-
Density	ISO 1183-A	g/cm3	1.46	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.30	-
Molding shrinkage Parallel (ISO 294-4)	ISO 294-4	%	0.90	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	11000	7410
Elongation at break	ISO 527 type 1 A	%	2.30	5
Tensile strength at break	ISO 527 type 1 A	MPa	130	94
Charpy notched impact strength	ISO 179/1eA	kJ/m2	6	9.5
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	55	-
<b>Flamability</b>				
Flammability UL 94 (Thickness 0,8 mm)	ISO 1210/UL 94		V0	-
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V0	-
Flammability UL 94 (Thickness 3,2 mm)	ISO 1210/UL 94		V0	-
Glow wire flammability index (thickness = 0,8)	IEC 60695-2-12	°C	960	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	960	-
Glow wire flammability index (thickness = 3,2)	IEC 60695-2-12	°C	960	-
Glow wire ignition temperature (thickness = 0,8)	IEC 60695-2-13	°C	775	-
Glow wire ignition temperature (thickness = 1,6)	IEC 60695-2-13	°C	775	-
Limit Oxygen index	ISO 4589		33	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	245	-
<b>Electrical</b>				
Comparative tracking index sol. A	IEC 60112	Volt	600	-

## Identification Code : >PA66-GF30 FR(40)<

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.\*\*



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