



## TECHNYL<sup>®</sup> C 218 V30 BLACK 21N

Product Datasheet – January 2009

### Description

Polyamide 6, reinforced with 30% of glass fibre, heat stabilized, for injection moulding

### Applications

It has good mechanical properties, it is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties.

It is used in the automotive industry and electrical sectors.

This product is available in black color (Other colors will be discussed)

### 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 225 - 230 °C
- compression zone 260 - 270 °C
- front zone 270 - 280 °C

Mould temperatures: 80 - 100 °C

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

### Safety

Please refer the Safety Data Sheet for TECHNYL<sup>®</sup> C 218 V30 BLACK 21N.



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RHODIA POLYAMIDE

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The values of properties are for black color grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption, (24h at 23°C)	ISO 62	%	0.95	-
Density	ISO 1183	g/cm³	1.35	-
Mold shrinkage (Flow)	Rhodia	%	0.35	-
Mold shrinkage (Transverse)	Rhodia	%	0.65	-
Mechanical				
Tensile stress at yield	ASTM D-638	MPa	175	102
Tensile strain at break	ASTM D-638	%	3.5	4.5
Flexural strength	ASTM D-790	MPa	260	157
Flexural modulus	ASTM D-790	MPa	9150	5400
Izod notched impact strength	ASTM D-256	J/m	120	208
Rockwell hardness	ASTM D-786	R-scale	120	-
Flammable				
Flammability UL94 (thickness=3.2mm)	ISO1210/UL94	-	HB	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Limit Oxygen index	ISO 4589	-	23	-
Thermal				
Melt Temperature	ISO 11357	°C	222	-
Heat Deflection temperature, 1.82 MPa	ASTM D-648	°C	205	-
Coef. of linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5/°C	3.20	-
Electrical				
Relative permittivity	IEC60250	-	3.80	4.5
Dissipation factor	IEC60250	-	0.02	0.09
Volume resistivity	IEC60093	ohm.cm	10E14	10E10
Surface resistivity	IEC60093	ohm	10E12	10E10
Dielectric strength	IEC60243	kV/mm	-	22
Comparative tracking index sol. A	IEC 60112	Volt	550	475
Special				

## Identification code

>PA6-GF30<

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ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED.

Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Rhodia is at their disposal to supply any additional information.

\* d.a.m = Dry As Moulded.

\*\* Cond. = conditioned according ISO 1110.



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