TECHNYL® C 216 V30 BLACK Z/4

Product Datasheet - June 2007

Description

Polyamide PA6 , reinforced with 30 % of glass fibre, for injection moulding.

Product 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.

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 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	230 - 240°C
front zone	240 - 250°C

- Mould temperatures : 80 - 100 °C

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

Safety

Please refer to the Safety Data Sheet T583BV498FS

Postal Adress Rhodia Polyamide Engineering Plastics : Avenue Ramboz BP 64 69192 Saint-Fons Cedex France Phone : +33.4.72.89.27.00 Fax : +33.4.72.89.27.01.
Company Name : Rhodia Operations Registered Office : 40, rue de la Haie-Coq 93306 Aubervilliers Cedex France - Phone : + 33 1 53 56 50 00 Fax : +33 1 53 56 55 55.

TECHNYL® C 216 V30 BLACK Z/4

The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.95	-
Density	ISO 1183-A	g/cm3	1.35	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.35	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.65	-
Molding Shrinkage Isotropy	RHODIA-EP		0.53	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	9600	6200
Elongation at break	ISO 527 type 1 A	%	3.80	4.5
Tensile strength at break	ISO 527 type 1 A	MPa	190	110
Flexural modulus	ISO 178	MPa	9500	5500
Charpy notched impact strength	ISO 179/1eA	kJ/m2	15	31.5
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	100	108
Izod notched impact strength	ISO 180/1A	kJ/m2	14	24
Flamability				
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	3.20	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.09
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	-	22
Comparative tracking index sol. A	IEC 60112	Volt	550	475

Identification Code : >PA6-GF30<

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.**

Postal Adress Rhodia Polyamide Engineering Plastics : Avenue Ramboz BP 64 69192 Saint-Fons Cedex France Phone : +33.4.72.89.27.00 Fax : +33.4.72.89.27.01.
Company Name : Rhodia Operations Registered Office : 40, rue de la Haie-Coq 93306 Aubervilliers Cedex France - Phone : + 33 1 53 56 50 00 Fax : +33 1 53 56 55 55.