TECHNYL® C 216 V18

Product Datasheet - June 2007

Description

Polyamide 6, reinforced with 18 % 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 colours on 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 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 BA3R2GBG8FS

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The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	1.10	-
Density	ISO 1183-A	g/cm3	1.24	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	6900	3400
Elongation at break	ISO 527 type 1 A	%	4	6.5
Tensile strength at break	ISO 527 type 1 A	MPa	140	75
Flexural modulus	ISO 178	MPa	6800	3300
Charpy notched impact strength	ISO 179/1eA	kJ/m2	7	23
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	55	65
Izod notched impact strength	ISO 180/1A	kJ/m2	8	16
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	180	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	4	-
Electrical				
Relative permittivity	IEC 60250		3.80	4.5
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
Specific				
IMDS id number	Rhodia		4671615/ 2	-

Identification Code : >PA6-GF18<

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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