TECHNYL® C 218 V35

Product Datasheet - June 2007

Description

Polyamide PA6, reinforced with 35 % of glass fibre, heat stabilized, 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 R9GLJNKS8FS

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.

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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	%	0.90	-
Density	ISO 1183-A	g/cm3	1.38	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.30	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.60	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	10600	6900
Elongation at break	ISO 527 type 1 A	%	3	4
Tensile strength at break	ISO 527 type 1 A	MPa	195	115
Flexural modulus	ISO 178	MPa	10500	6800
Charpy notched impact strength	ISO 179/1eA	kJ/m2	16.5	33
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	101	110
Izod notched impact strength	ISO 180/1A	kJ/m2	15	28
Flamability				
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Glow wire flammability index (thickness = 3,2)	IEC 60695-2-12	°C	650	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	210	-
Coef. of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	2.80	-
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-GF35<

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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