TECHNYL® C 30H1 V30 NATURAL/F

Product Datasheet - May 2006

Description

Flame retardant polyamide PA6, reinforced with 30% of glass fibre, for injection moulding.

Product Applications

This grade has good mechanical properties, flame retardant rating UL94 V0 and glow-wire at 960°C.

It is specially suitable for pieces such as : switches, timers, etc.

This product is available in Natural.

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	230 - 240°C
compression zone	240 - 250°C
front zone	240 - 255°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 UBJA5N0G8FS

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The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Density	ISO 1183-A	g/cm3	1.62	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.60	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.80	-
Molding Shrinkage Isotropy	RHODIA-EP		0.75	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	11400	8050
Tensile strain at break	ISO 527 type 1 A	%	1.80	6
Tensile strength at break	ISO 527 type 1 A	MPa	114	85
Charpy notched impact strength	ISO 179/1eA	kJ/m2	9	13
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	37	40
Flamability				
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 ignatability temperature (thickness = 0,8)	IEC 60695-2-13	°C	825	-
Glow wire ignatability temperature (thickness = 1,6)	IEC 60695-2-13	°C	850	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	197	-
Electrical				
Comparative tracking index sol. A	IEC 60112	Volt	450	-

Identification Code : >PA6-GF30 FR(17)<

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 = Dry As Moulded.

** Cond. = Conditioned according ISO 1110.

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