TECHNYL® A 30H1 V25

Product Datasheet - December 2006

Description

Flame-retardant polyamide 66, 25% glass-fibre reinforced, heat stabilized for injection moulding.

Product Applications

This flame retardant material, U.L. 94 V0 rated at 0.8 mm, shows high Glow-wire, CTI values and good mechanical properties .It can be supplied in various colours .
This grade is suitable for moulding insulating parts for electrical devices:
- switches
- rotary switches
- timers
- contactors

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 of less than 0,2% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions:

Barrel temperatures:

- feed zone 275 - 280°C
- compression zone 280 - 285°C
- front zone 285 - 290°C

Mould temperatures: 60 - 90°C

Safety

Please refer to the Safety Data Sheet T10UP72C8FS

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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	-
Density	ISO 1183-A	g/cm3	1.54	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	8800	7000
Tensile strain at break	ISO 527 type 1 A	%	2.5	3
Tensile strength at break	ISO 527 type 1 A	MPa	95	78
Charpy notched impact strength	ISO 179/1eA	kJ/m2	9	10
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	45	47
Izod notched impact strength	ISO 180/1A	kJ/m2	9.80	11
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	775	-
Glow wire ignatability temperature (thickness = 1,6)	IEC 60695-2-13	°C	775	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	220	-
Electrical				
Comparative tracking index sol. A	IEC 60112	Volt	500	-

Identification Code : >PA66-GF25 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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