

TECHNYL® A 30H1 V30

Product Datasheet - June 2007

Description

Flame retardant polyamide 66, 30% glass fibre reinforced, heat stabilized, for injection moulding.

Product Applications

This flame retardant material, UL 94 V0 rated under 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 at 80°C

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

Safety

Please refer to the Safety Data Sheet VKLN5AVF8FS

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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	%	0.80	-
Density	ISO 1183-A	g/cm3	1.57	-
Molding shrinkage normal or perpendicular (ISO 294-4)	ISO 294-4	%	0.95	-
Molding shrinkage Parallel (ISO 294-4)	ISO 294-4	%	0.60	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	9400	7500
Elongation at break	ISO 527 type 1 A	%	2.20	3.5
Tensile strength at break	ISO 527 type 1 A	MPa	98	80
Flexural modulus	ISO 178	MPa	9900	6800
Charpy notched impact strength	ISO 179/1eA	kJ/m2	9.5	12
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	38	50
Izod notched impact strength	ISO 180/1A	kJ/m2	11.5	15
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 flammability index (thickness = 3,2)	IEC 60695-2-12	°C	960	-
Glow wire ignition temperature (thickness = 0,8)	IEC 60695-2-13	°C	800	-
Glow wire ignition temperature (thickness = 1,6)	IEC 60695-2-13	°C	825	-
Limit Oxygen index	ISO 4589		31	-
Fire and smoke F index	NF F 16 101	l2, F3	3	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/At	°C	226	-
Electrical				
Relative permittivity	IEC 60250		3.30	3.60
Dissipation factor	IEC 60250		0.01	0.05
Volume resistivity	IEC 60093	Ohm.cm	10E14	-
Surface resistivity	IEC 60093	Ohm	10E13	-
Dielectric strength	IEC 60243	kV/mm	42	40
Comparative tracking index sol. A	IEC 60112	Volt	450	600
Specific				
IMDS id number	Rhodia		25978665 / 2	-

Identification Code : >PA66-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*.

Cond.**



Engineering Plastics

