TECHNYL® A 31H1 V25

Product Datasheet - June 2007

Description

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

Product Applications

This flame retardant material, UL94 V1 rated under 1.6 mm, offers good mechanical properties.

This grade is suitable for moulding insulating parts for electrical devices:-switches
.-rotary switches
.-timers.

This product is available in natural, black and in colours on requests.

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

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

Safety

Please refer to the Safety Data Sheet 9JILP5DN8FS

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The values of properties are for the 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	1.48	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	9000	6500
Elongation at yield	ISO 527 type 1 A	%	2	3
Elongation at break	ISO 527 type 1 A	%	2	4
Tensile strength at break	ISO 527 type 1 A	MPa	140	105
Flexural modulus	ISO 178	MPa	7300	5000
Charpy notched impact strength	ISO 179/1eA	kJ/m2	8	10
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	55	55
Izod notched impact strength	ISO 180/1A	kJ/m2	6	7
Flamability				
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	960	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.06
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E11
Surface resistivity	IEC 60093	Ohm	10E13	10E11
Dielectric strength	IEC 60243	kV/mm	40	35
Comparative tracking index sol. A	IEC 60112	Volt	300	300

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*.

Cond.**

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