

TECHNYL® A 31T1 MZ40

Product Datasheet - July 2007

Description

Flame retardant polyamide PA66, 40% mineral filled, heat stabilised, for injection moulding.

Product Applications

This flame retardant material offers very good dimensional stability and excellent Glow wire performance. This product is particularly recommended for electrical parts such as:

- low voltage distribution, protection systems, mini circuit breakers, fuse
- holders and terminal blocks.

This product is available in grey.

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 270 - 275°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 7VS91VRQ8FS

TECHNYL® A 31T1 MZ40

The values of properties are for grey grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.43	-
Density	ISO 1183-A	g/cm3	1.67	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	6900	4000
Elongation at break	ISO 527 type 1 A	%	1.70	6.90
Tensile strength at break	ISO 527 type 1 A	MPa	77	47
Charpy notched impact strength	ISO 179/1eA	kJ/m2	2.20	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	25	-
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V2	-
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	-
Limit Oxygen index	ISO 4589		46.5	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	120	-
Electrical				
Dielectric strength	IEC 60243	kV/mm	30	30
Comparative tracking index sol. A	IEC 60112	Volt	400	-

Identification Code : >PA66-MD40 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

CHALLENGING BOUNDARIES

