

TECHNYL® C 52G1

Product Datasheet - June 2007

Description

Unreinforced polyamide PA6, heat stabilized, for injection moulding.

Product Applications

This reference is particularly suitable for Power Distribution applications, like wall plugs and sockets.

This product has an excellent mouldability and mechanical properties combined with very stable Glow Wire performance.

This product is available in white colour.

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 230 - 240°C
- compression zone 240 - 250°C
- front zone 250 - 260°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



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The values of properties are for white grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	1.20	-
Density	ISO 1183-A	g/cm3	1.18	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	1.30	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.10	-
Molding Shrinkage Isotropy	RHODIA-EP		1.20	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3500	1200
Tensile strength at yield	ISO 527 type 1 A	MPa	80	40
Elongation at break	ISO 527 type 1 A	%	20	38
Charpy notched impact strength	ISO 179/1eA	kJ/m2	7	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	65	-
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	850	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	850	-
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	700	-
Glow wire ignition temperature (thickness = 1,6)	IEC 60695-2-13	°C	700	-
Glow wire ignition temperature (thickness = 3,2)	IEC 60695-2-13	°C	725	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	75	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	7	-
Electrical				
Relative permittivity	IEC 60250		3.5	3.90
Dissipation factor	IEC 60250		0.02	0.06
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E11
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	28	-
Comparative tracking index sol. A	IEC 60112	Volt	600	-

Identification Code : >PA6<

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

