TECHNYL® A 222 BLACK 1 N

Product Datasheet - June 2007

Description

Unreinforced polyamide PA66, medium viscosity, heat stabilized, for injection moulding, fast crystallisation , for short cycles .

Product Applications

TECHNYL A 222 offers a good combination between primary properties of the unreinforced polyamide 66 and processing properties leading to increased productivity .These performances are associated with excellent dimensional stability and good rigidity of moulded parts. This grade is used for connector parts in electrical and automotive industries .

This product is available in black .

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 250 - 270°C
- compression zone 260 - 280°C
- front zone 270 - 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 85G087ME8FSA1

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TECHNYL® A 222 BLACK 1 N

The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	1.10	-
Density	ISO 1183-A	g/cm3	1.14	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	1.40	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.5	-
Molding Shrinkage Isotropy	RHODIA-EP		0.93	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3200	2000
Tensile strength at yield	ISO 527 type 1 A	MPa	95	65
Elongation at yield	ISO 527 type 1 A	%	7	25
Elongation at break	ISO 527 type 1 A	%	20	105
Tensile strength at break	ISO 527 type 1 A	MPa	75	50
Flexural modulus	ISO 178	MPa	3100	1400
Charpy notched impact strength	ISO 179/1eA	kJ/m2	4	12
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	4	12
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V2	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	700	-
Limit Oxygen index	ISO 4589		26	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	80	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	6.5	-
Electrical				
Relative permittivity	IEC 60250		2.90	3.20
Dissipation factor	IEC 60250		0.03	0.08
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E13
Surface resistivity	IEC 60093	Ohm	10E13	10E11
Dielectric strength	IEC 60243	kV/mm	27	26
Comparative tracking index sol. A	IEC 60112	Volt	575	600
Comparative tracking index sol. B	IEC 60112	Volt	450	-

Identification Code : >PA66<

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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