TECHNYL

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TECHNYL ® A 225F

Description

Unreinforced polyamide 66 , medium viscosity , for injection moulding, with a special crystallizing agent, for fast cycles .

Applications

TECHNYL A 225F offers two main advantages : excellent filling qualities and UL 94 V2 under 0.4 mm.

It is particularly used in electrical applications to mould parts with a good dimensional stability, such as :

- unfilled bobbin coil forers for electrical motors ,
- transformers,
- connectors.

This product is available in natural .

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 - 280°C
	- compression zone	260 - 290°C
	- front zone	270 - 300°C
Mould temperatures :		60 at 80°C

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

Safety

Please refer to the Material Safety Data Sheet A1

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Main properties

Values measured at 23 °C The values of properties are for natural grade.

Properties		Standards	Unit	Values	
				EH 0 – 23 °C	EH 50 – 23 °C
Physical	Water absorption, 24h in water at 23°C	ISO 62	%	1.1	-
	Density	ISO 1183-A	g/cm3	1.14	-
	Moulding shrinkage longitudinal	RHODIA-EP	%	1.5	-
	Moulding shrinkage transverse	RHODIA-EP	%	1.8	-
Mechanical	Tensile Modulus	ISO 527	MPa	3200	2000
	Yield stress	ISO 527	MPa	85	55
	Elongation at yield	ISO 527	%	5	-
	Tensile strain at break	ISO 527	%	20	100
	Tensile stress at break	ISO 527	MPa	70	50
	Flexural modulus	ISO 178	MPa	3150	1400
	Flexural stress at break	ISO 178	MPa	125	55
	Charpy notched impact strength	ISO 179/1EA-1993	kJ/m2	4	4.5
	Charpy notched impact strength ISO179/1A	ISO 179-1982	kJ/m2	5	15
	Charpy impact strength	ISO 179/1EU-1993	kJ/m2	NB	NB
	Charpy impact strength ISO 179/1D	ISO 179-1982	kJ/m2	NB	NB
	Izod notched impact strength	ISO 180	kJ/m2	5	12
Thermal	Melt temperature	ISO 3146 - C	°C	263	-
	Temper. of dimensional stability 1,8 MPa	ISO 75-2	°C	80	-
	Coef. linear expansion longit. 23°C-85°C	ASTM E 831	E-5 / °C	6.5	-
	Flammability UL94 thickness 0,4mm	ISO 1210/UL 94	-	V2	-
	Flammability UL94 thickness 0,8mm	ISO 1210/UL 94	-	V2	-
	Flammability UL94 thickness 1,6 mm	ISO 1210/UL 94	-	V2	-
	Glow wire test thickness 1,6 mm	IEC 695-2-1	°C	960	-
Electrical	Relative permittivity 1MHz	IEC 250	-	2.9	3.2
	Dissipation factor 1 MHz	IEC 250	-	0.02	0.08
	Volume resistivity	IEC 93	E14.Ohm.cm	40	1
	Surface resistivity	IEC 93	E14.Ohm	1	0.04
	Dielectric strength	IEC 243-1	kV/mm	27	26
	Comparative tracking index sol. A	IEC 112	Volt	600	600

Identification code >PA66<

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