TECHNYL® A 203

Product Datasheet - June 2007

Description

Unreinforced polyamide 66, medium viscosity, for injection moulding, slows crystallisation.

Product Applications

TECHNYL® A 203 offers two main advantages: an excellent filling qualities and a very good surface finish. It is particularly suitable for the moulding of parts with thin wall sections, such as:
- Cable ties
- Fasteners
- Bobbins coil formers.

This product is available in natural and black, and in a wide range of standard colours.

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	260 - 280°C
- compression zone	270 - 285°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 IDQCAL788FS

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TECHNYL® A 203

The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	1.30	-
Density	ISO 1183-A	g/cm3	1.14	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3200	1400
Tensile strength at yield	ISO 527 type 1 A	MPa	85	60
Elongation at yield	ISO 527 type 1 A	%	7	25
Elongation at break	ISO 527 type 1 A	%	50	200
Flexural modulus	ISO 178	MPa	2800	1900
Flexural maximum stress	ISO 178	MPa	140	80
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Thermal				
Melting Temperature	ISO 11357	°C	263	-
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	4
Dissipation factor	IEC 60250		0.02	0.10
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E11
Comparative tracking index sol. A	IEC 60112	Volt	600	-
Specific				
IMDS id number	Rhodia		4549843 / 2	-

Identification Code : >PA66<

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d.a.m*.

Cond.**

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