TECHNYL® A 208K

Product Datasheet - June 2007

Description

Unreinforced polyamide 66, high fluidity, heat stabilized, fast cycling grade, for injection moulding.

Product Applications

TECHNYL® A 208K offers the following advantages:
- excellent filling qualities,
- good ductility at low temperature,
- good resistance to high temperature required for under bonnet automotive parts,
- and is V2 rated under 0.8 mm according to UL94.

It is particularly suitable for the moulding of long parts with thin wall sections requiring clips and live hinges, such as :
- cable ties and fasteners,
- connectors,
- fasteners.

This product is available in natural and 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	270 - 275°C
	- compression zone	280 - 285°C
	- front zone	285 - 290°C
Mould temperatures:		60 - 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 natural 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	1.14	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	1.70	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.70	-
Molding Shrinkage Isotropy	RHODIA-EP		1	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3200	1600
Tensile strength at yield	ISO 527 type 1 A	MPa	85	55
Elongation at yield	ISO 527 type 1 A	%	8	10
Elongation at break	ISO 527 type 1 A	%	25	200
Tensile strength at break	ISO 527 type 1 A	MPa	60	40
Flexural modulus	ISO 178	MPa	2900	1300
Flexural maximum stress	ISO 178	MPa	120	50
Charpy notched impact strength	ISO 179/1eA	kJ/m2	4.5	15
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	5	12
Flamability				
Flammability UL 94 (Thickness 0,8 mm)	ISO 1210/UL 94		V2	-
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V2	-
Glow wire flammability index (thickness = 0,8)	IEC 60695-2-12	°C	800	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	960	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	70	-
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	40E11
Dielectric strength	IEC 60243	kV/mm	27	26
Comparative tracking index sol. A	IEC 60112	Volt	475	-
Comparative tracking index sol. B	IEC 60112	Volt	450	-

Identification Code :

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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