TECHNYL® A 216 Y10

Product Datasheet - June 2007

Description

Unreinforced polyamide 66, containing molybdenum disulfide, medium viscosity, heat stabilized, self lubricating, for injection moulding.

Product Applications

TECHNYL ® A 216 Y10 offers all of the primary properties of unreinforced polyamide 66 and mainly has, excellent surface properties:
- low coefficient of friction
- good resistance to wear

This grade is particularly suitable for moulding of mechanical self lubricating parts, such as : gears, bearings, hub bushes.

This product is available in natural (dark grey).

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 - 270°C
- front zone 270 - 280°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 CUQAJDCH8FS

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TECHNYL® A 216 Y10

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	%	2	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.90	-
Molding Shrinkage Isotropy	RHODIA-EP		1.05	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3000	1500
Tensile strength at yield	ISO 527 type 1 A	MPa	83	65
Elongation at yield	ISO 527 type 1 A	%	12	25
Elongation at break	ISO 527 type 1 A	%	30	100
Tensile strength at break	ISO 527 type 1 A	MPa	60	50
Flexural modulus	ISO 178	MPa	2900	1300
Flexural maximum stress	ISO 178	MPa	120	50
Charpy notched impact strength	ISO 179/1eA	kJ/m2	3	10
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	3	8
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V2	-
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 normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	7	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.11
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	30	28
Comparative tracking index sol. A	IEC 60112	Volt	600	600
Specific				
IMDS id number	Rhodia		16129925 / 2	-

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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