

TECHNYL® C 216 Y10

Product Datasheet - October 2005

Description

Unreinforced polyamide 6 containing molybdenum disulfide, for injection moulding.

Product Applications

The low coefficient of friction makes this grade suitable for applications which require excellent frictional properties such as :

- self-lubricating bearings, gear wheels, etc..

This product is available in natural (graphite 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 less than 0.2% with a dehumidified air drying equipment at approx. 80°C.

Recommended moulding conditions:

- Barrel temperatures:

feed zone	225 - 235°C
compression zone	225 - 235°C
front zone	230 - 240°C

- Mould temperatures : 40 - 60°C

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

Safety

Please refer to the Safety Data Sheet I8USLF248FS

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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	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3100	1100
Tensile strength at yield	ISO 527 type 1 A	MPa	85	45
Flexural modulus	ISO 178	MPa	3000	1000
Flexural maximum stress	ISO 178	MPa	115	40
Charpy notched impact strength	ISO 179/1eA	kJ/m2	4.70	65
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	4.30	72
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
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	5	-
Electrical				
Relative permittivity	IEC 60250		3.40	3.90
Dissipation factor	IEC 60250		0.02	0.10
Volume resistivity	IEC 60093	E14.Ohm.cm	10	0.001000
Surface resistivity	IEC 60093	E14.Ohm	0.100000	0.001000
Dielectric strength	IEC 60243	kV/mm	-	18
Comparative tracking index sol. A	IEC 60112	Volt	600	-

Identification Code : >PA6<

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 = Dry As Moulded.

** Cond. = Conditioned according ISO 1110.



Engineering Plastics