

TECHNYL® C 216

Product Datasheet - August 2010

Description

Unreinforced polyamide PA6, standard nucleation for fast cycling, for injection moulding.

Product Applications

This grade has a high fluidity and good mould release. It is specially suitable for the production of technical mouldings with fast injection cycles.

This product is available in colours on request.

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	220 - 230°C
compression zone	225 - 235°C
front zone	230 - 240°C

- Mould temperatures: 20 - 50 °C

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

Safety

Please refer to the Safety Data Sheet E2MUC2NU8FS



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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	%	1.30	-
Density	ISO 1183-A	g/cm3	1.14	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	1.30	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.30	-
Molding Shrinkage Isotropy (Rhodia EP)	RHODIA-EP		1	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	2950	1100
Tensile strength at yield	ISO 527 type 1 A	MPa	85	45
Elongation at break	ISO 527 type 1 A	%	100	270
Flexural modulus	ISO 178	MPa	2900	1000
Flexural maximum stress	ISO 178	MPa	115	40
Charpy notched impact strength	ISO 179/1eA	kJ/m2	5	84
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	4.5	75
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Limit Oxygen index	ISO 4589		26	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	80	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	7	-
Electrical				
Relative permittivity	IEC 60250		3.40	3.90
Dissipation factor	IEC 60250		0.02	0.10
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	-	18
Comparative tracking index sol. A	IEC 60112	Volt	600	-
Comparative tracking index sol. B	IEC 60112	Volt	575	-

Identification Code : >PA6<

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d.a.m*.

Cond.**

