

Description

Unreinforced polyamide PA6, medium - high viscosity, for injection moulding.

Product Applications

It has good flexibility and impact strength; it is suitable in moulding and extrusion fields.

It is used to obtain pieces with high resistance to continual mechanical / thermal stresses.

This product is available in natural.

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 - 230°C
compression zone	230 - 240°C
front zone	235 - 245°C

- Mould temperatures: 40 °C

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

Safety

Please refer to the Safety Data Sheet

TECHNYL® C 306

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	2800	900
Tensile strength at yield	ISO 527 type 1 A	MPa	80	40
Flexural modulus	ISO 178	MPa	2750	850
Flexural maximum stress	ISO 178	MPa	115	35
Charpy notched impact strength	ISO 179/1eA	kJ/m2	6.40	-
Charpy notched impact strength	ISO 179/1eA	kJ/m2	-	NB
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	5.20	90
Thermal				
Melting Temperature	ISO 11357	°C	222	-
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		3.60	4.10
Dissipation factor	IEC 60250		0.02	0.12
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	-	18
Specific				
IMDS id number	Rhodia		55473467/ 1	-

Identification Code : >PA6<

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d.a.m*.

Cond.**



Engineering Plastics

CHALLENGING BOUNDARIES