PS/0548/2001.282/UK

TECHNYL ® PSB 286

Description

Unreinforced polyamide PA6, standard for fast injection cycles, for injection moulding

Applications

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

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 - 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 Material Safety Data Sheet C1S

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Main properties

Values measured at 23 °C The values are for natural grade.

Properties		Standards	Unit	Values	
				EH 0 – 23 °C	EH 50 – 23 °C
Physical	Water absorption, 24h in water at 23°C	ISO 62	%	1.3	-
	Density	ISO 1183-A	g/cm3	1.14	-
Mechanical	Tensile Modulus	ISO 527	MPa	2800	1200
	Yield stress	ISO 527	MPa	85	45
	Flexural modulus	ISO 178	MPa	2800	1000
	Flexural strength	ISO 178	MPa	115	40
	Charpy notched impact strength	ISO 179/1EA-1993	kJ/m2	5.5	8.8
	Charpy impact strength	ISO 179/1EU-1993	kJ/m2	NB	NB
	Izod notched impact strength	ISO 180	kJ/m2	5	80
Thermal	Melt temperature	ISO 3146 - C	°C	222	-
	Temper. of dimensional stability 1,8 MPa	ISO 75-2	°C	80	-
	Coef. linear expansion longit. 23°C-85°C	ASTM E 831	E-5 / °C	7	-
Electrical	Relative permittivity 1MHz	IEC 250	-	3.4	3.9
	Dissipation factor 1 MHz	IEC 250	-	0.023	0.1
	Volume resistivity	IEC 93	E14.Ohm.cm	10	0.001
	Surface resistivity	IEC 93	E14.Ohm	0.1	0.001
	Dielectric strength	IEC 243-1	kV/mm	-	18
	Comparative tracking index sol. A	IEC 112	Volt	600	-

Identification code >PA6<

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Avenue Ramboz BP 64 F-69192 Saint-Fons Cedex. Telephone: +33 (0)4 72 89 27 00 Fax: +33(0)4 72 89 27 01

RHODIA ENGINEERING PLASTICS. Société Anonyme au capital de 271 256 400 F - 393 335 104 RCS Lyon