

TECHNYL® C 246M

Product Datasheet - June 2007

Description

Unreinforced polyamide 6, with high impact resistance, for injection moulding. Grade formerly known as PSB196.

Product Applications

It is particularly adapted to the moulding of sports and leisure goods, such as parts for in-line skates.

This product is available in natural, black and 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 of less than 0.2% with a dehumidified air drying equipment at approx. 80°C

Recommended moulding conditions:

- Barrel temperatures:

feed zone 220 - 225°C

compression zone 225 - 230°C

front zone 230 - 235°C

- Mould temperatures: 50°C

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

Safety

Please refer to the Safety Data Sheet

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The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Density	ISO 1183-A	g/cm3	1.06	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	2000	1100
Tensile strength at yield	ISO 527 type 1 A	MPa	45	40
Elongation at break	ISO 527 type 1 A	%	50	50
Flexural modulus	ISO 178	MPa	1900	950
Charpy notched impact strength	ISO 179/1eA	kJ/m2	55	-
Izod notched impact strength	ISO 180/1A	kJ/m2	55	-
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	60	-
Electrical				
Relative permittivity	IEC 60250		3.5	4
Dissipation factor	IEC 60250		0.02	0.12
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E11	10E10
Dielectric strength	IEC 60243	kV/mm	-	18

Identification Code : >PA6<

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d.a.m*.

Cond.**



Engineering Plastics

