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Polyethylene

TIPELIN 6000B

Bimodal HDPE for Blow Moulding

Description

TIPELIN 6000B is a high density bimodal polyethylene intended for blow moulding of products with high stiffness and very good environmental stress crack resistance (ESCR).

Applications

TIPELIN 6000B is recommended for household and industrial chemicals such as detergents, cleaners, motor oils etc. **TIPELIN 6000B** is recommended for bottles and containers up to 10 litres.

Suitability

The product complies with Food Contact Regulations. With regard to the executed tests, the product meets the requirements of the European Pharmacopoeia 5./3.1.5.

Physical Properties

	Test method	Unit	Typical Value
MFR (2.16 kg/190°C)	ISO 1133/B	g/10 min	0.25-0.35
MFR (5.0 kg/190°C)	ISO 1133/B	g/10 min	1.10-1.50
MFR (21.6 kg/190°C)	ISO 1133/B	g/10 min	28
Density	ISO 1183-2	g/cm ³	0.956-0.960
Tensile strength at yield	ISO 527-3	MPa	29
Tensile strain at yield	ISO 527-3	%	8
Tensile strength at break	ISO 527-3	MPa	30
Tensile strain at break	ISO 527-3	%	800
Flexural modulus	ISO 178	MPa	1450
Izod impact strength (notched 23°C)	ISO 180/1A	KJ/m ²	6
Shore D hardness	ISO 868	-	64
ESCR (10% AntaroX) F50	ASTM D 1693	h	300

* Data should not be used for specification work

April 2005

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1 Technical Data Sheet

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Processing

TIPELIN 6000B is easy to extrude and can be used in all conventional blow-moulding machines.

Recommended processing temperature 170 – 190 °C.

Temperature

Barrel: 170-190°C

Die: 175-190°C

Storage and Handling

TIPELIN 6000B should be stored in dry conditions at temperatures below +50°C and protected from UV light.

Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of the product.

TIPELIN 6000B should be protected from contact with direct flames and other ignition sources.

Safety

See MSDS

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning.

In-house production waste should be kept clean to facilitate direct recycling.

Notes

The information provided in this publication has been compiled to the best of our present knowledge. However, in view of the various applications of polyethylene resins and the equipment used, the processing conditions may differ.

The recommendations and data herein are to be construed as informative only and do not relieve users from carrying out their own tests and experiments prior to processing in order to check suitability for a specific use. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Our products are under continuous development, therefore we reserve the right to change the information presented in this brochure at our own discretion.

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