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Polyethylene
TIPELIN BS 501-17
HDPE for Blow Moulding

Description

TIPELIN BS 501-17 is a high density polyethylene copolymer (with hexen-1 as comonomer) grade for blow moulding of products which require excellent ESCR and chemical resistance, furthermore balanced mechanical properties. **TIPELIN BS 501-17** contains as processing stabilizers primary and secondary antioxidants.

Applications

TIPELIN BS 501-17 is recommended for bottles and cans up to 10 litre capacity for aggressive household chemicals and detergents.

Suitability

TIPELIN BS 501-17 is suitable for food contact. The product complies with FDA, BgVV and EU norms. The grade is suitable for manufacturing of pharmaceutical packing-products is not objectionable from the chemical point of view.

Physical Properties

	Test method	Unit	Typical Value*
Melt flow rate (190 °C/2.16 kg)	ISO 1133	g/10 min	0.2
Melt flow rate (190 °C/21.6 kg)	ISO 1133	g/10 min	19
Density	ISO 1183	g/cm ³	0.950
Tensile strength at yield	ISO 527	MPa	26
Tensile strength	ISO 527	MPa	30
Elongation at break	ISO 527	%	1400
Flexural modulus	ISO 178	MPa	1200
Izod impact strength	ISO 180	KJ/m ²	10
Vicat softening temperature	ISO 306	°C	128
Shore D hardness	ISO 868	-	65
ESCR (F ₅₀ B method)	ASTM D 1693	h	200

* Data should not be used for specification works. Average mechanical property values of several measurements carried out on standard specimens (ISO 293) conditioned at room temperature (ISO 291).

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Processing

TIPELIN BS 501-17 can be used in all conventional blow moulding machines. Recommended processing temperature of 180-220 °C.

Storage and Handling

TIPELIN BS 501-17 should be stored in dry conditions at temperatures -20 – +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.

Safety

See MSDS.

Recycling

Polyethylene resins are 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 informatory 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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