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Polyethylene

TIPELIN 8000F

Bimodal HDPE for Film

Description

TIPELIN 8000F is a high density bimodal polyethylene film grade, which combines superior physical properties with excellent processability. Due to high density, the material properties are best utilised by processing at HDPE conditions. Film made of **TIPELIN 8000F** has good strength, high stiffness, impact and balanced tear resistance.

Applications

TIPELIN 8000F is particularly suitable for applications where outstanding and well balanced mechanical properties and good draw down together with high stiffness are required, such as produce bags, industrial liners, carrier bags and heavy duty bags.

Suitability

The product complies with Food Contact Regulations.

Physical Properties

	Test method	Unit	Value/ Tolerance limit	Note
MFR (5.0 kg/190°C)	ISO 1133/B	g/10 min	0.20 (0.16-0.24)	guaranteed
MFR (21.6kg/190°C)	ISO 1133/B	g/10 min	~6	guaranteed
Density	ISO 1183-2	g/cm³	0.948 (0.945-0.951)	guaranteed
NNI	2-04		> 100	guaranteed
Yellowness Index	ASTM D 1925		max. +2	guaranteed
Granulate impurity	2-12	n/kg	max. 5	guaranteed
Film quality Gels 0,25-0,5 mm Gels 0,5-1,0 mm	2-06	n/m2	max. 25 max. 5	informative
Tensile strength at yield **	ISO 527-3	MPa	24	informative
Tensile strength at break**	ISO 527-3	MPa	33	informative
Tensile strain at break**	ISO 527-3	%	1100	informative
Flexural modulus*	ISO 178	MPa	1000	informative
Shore D hardness*	ISO 868	-	61	informative

* Typical properties, not to be used for specification work

**Measured with moulded test sample having a thickness of 1mm

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Technical Data Sheet

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Film Properties

	Test method	Unit	Typical Value
Tensile strength at break MD/TD	ISO 527-3	MPa	50/55
Tensile strain at break MD/TD	ISO 527-3	%	250/300
Elmendorf tear resistance MD/TD	ISO 6383-2	N	0.2/0.3
Dart drop F50	ISO 7765-1	g	350

- Data should not be used for specification work
- Film properties are measured on a 15µm film sample produced in a Ø 65 mm Alpine extruder, die 160x1.5 mm, BUR = 4:1, neck= 8* diameter. MD=Machine Direction, TD=Transverse Direction

Processing

TIPELIN 8000F is easy to extrude and can be used in all conventional film extrusion machines.

Recommended processing temperature :

Barrel: 190-230°C

Die: 200-225°C

Storage and Handling

TIPELIN 8000F 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 8000F 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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