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Polyethylene
TIPELIN 7000F
Bimodal HDPE for Film

Description

TIPELIN 7000F is a high density bimodal polyethylene intended for blown film of products with excellent mechanical strength and good stiffness. It offers good processability at high speed

Applications

TIPELIN 7000F is recommended for disposal waste bags, grocery bags and ultra-thin films.

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	0.05
MFR (5.0 kg/190°C)	ISO 1133/B	g/10 min	0.25-0.35
MFR (21.6 kg/190°C)	ISO 1133/B	g/10 min	9
Density	ISO 1183-2	g/cm ³	0.951-0.957
Tensile strength at yield	ISO 527-3	MPa	28**
Tensile strength at break	ISO 527-3	MPa	33**
Tensile strain at break	ISO 527-3	%	1200**
Flexural modulus	ISO 178	MPa	1200
Shore D hardness	ISO 868	-	63

* Data should not be used for specification work

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

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1
Technical Data Sheet



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 7000F 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 7000F 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 7000F 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 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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MANUFACTURER

Tiszai Vegyi Kombinát Rt.
Polymer Business Unit
H-3581 Tiszaújváros,
P.O. Box: 20
Hungary
Internet: <http://www.tvk.hu>
E-mail: tvkinfo@tvk.hu

CUSTOMER SERVICE

Tiszai Vegyi Kombinát Rt.
Polymer Marketing and Sales
Customer Service
H-3581 Tiszaújváros,
P.O. Box: 20
Hungary
Telephone: +36 -49/522-141, + 36-49/521-366
+ 36-49/521-367, + 36-80/204-249 (PE),
+ 36-49/522-013 , + 36-49/522-842+ 36-80/204-248 (PP)
Fax: + 36-49/521-186(PE) + 36-49/522-865 (PP)

SALES ORGANIZATION

Tiszai Vegyi Kombinát Rt.
Polymer Marketing and Sales
Sales Department
H-3581 Tiszaújváros,
P.O. Box: 20
Hungary
Telephone: +36-49/521-208
Fax: +36-49/522-410

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TVK Inter-Chemol GmbH.
Fellner Str. 5
D-60322 Frankfurt am Main
Germany
Telephone: +49-691/540-412
Fax: +49-691/540-441

TVK Italia S.r.L.
Via P. Teulié 1.
20136 Milano
Italy
Telephone: +39-02/5830-5523
Fax: +39-02/5830-3492

TVK-France
182, avenue Charles DeGaulle
F-92200 Neuilly-sur-Seine
France
Telephone: +33-1/4745-6360
Fax: +33-1/4745-4510

TVK UK Ltd.
127 Shirland Road, Maida Vale
London W9 2EL
Great-Britain
Telephone: +44-207/286 4350
Fax: +44-207/286 4351/2

TVK Polska Sp.z.o.o.
ul. Wawozowa 23/12
PL-02-796 Warszawa
Poland
Telephone: +48-22/648-1795
Fax: +48-22/648-6794

MOL- Austria Handels GmbH.
Gartenbaupromenade 2/6
A-1010 Wien
Austria
Telephone: +43-1 51599 1121
Fax: +43-5133755 1120

MOL GROUP Moscow
Representative Office
RUS-115054 Moscow
Kosmodamianskaya Nabereshznaya
D.52 Strojenie 3
Telephone: +70 95 363 39 55
Fax: +70 95 363 39 46
E-mail: tvksn@molmow.ru

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