# TECHNICAL DATASHEET

# **POLYETHYLENE TIPELIN 7000F**

HDPE for Blown films

# **DESCRIPTION**

TIPELIN 7000F is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for blown film of products with excellent mechanical strength and good stiffness. It offers good processability at high speed. The grade contains antioxidant and acid scavenger.

### **APPLICATIONS**

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

### **PRODUCT COMPLIANCE**

See DDS.

### **PROPERTIES\***

Parameter	Note	Test method	Unit	Typical value
MFR - Melt Mass-Flow Rate (190°C, 2.16 kg)	-	ISO 1133-1	g/10 min	0.08
MFR - Melt Mass-Flow Rate (190°C, 5 kg)	-	ISO 1133-1	g/10 min	0.3
MFR - Melt Mass-Flow Rate (190°C, 21.6 kg)	-	ISO 1133-1	g/10 min	9
Density (23°C)	3	ISO 1183-2	kg/m³	955
Tensile Stress at Yield (MD/TD)	14	ISO 527-3	MPa	27 / 24
Tensile Stress at Break (MD/TD)	14	ISO 527-3	MPa	55 / 45
Tensile Strain at Break (MD/TD)	14	ISO 527-3	%	500 / 550
Flexural Modulus	3	ISO 178	MPa	1500
Izod Impact Strength (notched, 23°C)	3	ISO 180/A	kJ/m²	16
Spencer Impact Strength	14	ASTM D3420	MPa	85
Elmendorf Tear Resistance (MD/TD)	14	ISO 6383-2	cN	15 / 175
Dart Drop	14	ISO 7765-1 method A	g	200
Hardness - Shore D	3	ISO 868	-	64
Vicat Softening Temperature	3	ISO 306/A 120	°C	129
OIT - Oxidation Induction Time (200°C)	-	EN 728	min	50
Recommended Film Thickness	-	-	mm	0.006 - 0.06
Recommended Processing Temperature	-	-	°C	180 - 220

### **PROCESSING**

TIPELIN 7000F can be used in conventional extrusion machines.



<sup>\*</sup>Typical properties, not to be used as specification.

<sup>(3)</sup> Values has been measured on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).

<sup>(14)</sup> Average mechanical property values of several measurements on film (MD = machine direction, TD = trans direction) thickness of 0.015 mm, blow up ratio 4:1.

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### **STORAGE AND HANDLING**

Pellets are packed in 25 kg polyethylene bags and transported on shrink-wrapped or stretch-wrapped pallets at eligible load of polymer 1375 kg. We use adhesive between the bags in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred method is to lift the bag at first without rotation. Heat treated pallets are provided by PRS, a member of the Faber Halbertma Group, operating a pooling system which collects the pallets after use, and organizes reuse as part of a sustainable, circular system. PRS pallets remain property of PRS at all times. For more detailed information please contact a sales representative at SLOVNAFT or at MOL Petrochemicals.

Since polyethylene is a combustible substance, the fire safety rules applicable for combustible materials in warehouses and store rooms should be observed.

If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During the storage polyethylene should not be exposed to UV radiation and temperatures above 40°C. Producer does not take responsibility for any damages caused by adverse storage.

#### **REACH STATEMENT**

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered. MOL Petrochemicals is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time HDPE TIPELIN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

### **RECYCLING**

Polyethylene resins are suitable for recycling using modern recycling methods. In-house production waste should be kept clean to facilitate direct recycling.

#### **SAFETY**

See MSDS.



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## **POLYETHYLENE TIPELIN 7000F**

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#### **MANUFACTURER**

MOL Petrochemicals Co. Ltd. H-3581 Tiszaújváros, P.O. Box: 20 Hungary

## **TECHNICAL SUPPORT**

POLYMER APPLICATIONS ENGINEERING MOL PLC. H-3581 Tiszaújváros, P.O. Box: 20

Hungary

Telephone:

+36 49 521 540 +36 80 204 248

E-mail: pts@mol.hu

## **SALES OFFICES**

### **HUNGARY**

H-3581 Tiszaújváros, P.O. Box: 20, Hungary Mobile: + 36 30 447 4441 Fax: +36 1 8877 647

E-mail: polymersales@mol.hu

# **SLOVAKIA AND CZECH REPUBLIC**

Vlčie hrdlo 1 824 12 Bratislava, Slovak Republic Telephone:

+421 2 5859 5426

+421 2 5859 5431 +421 2 5859 5429

+421 2 5859 5428

E-mail: predajpolymerov@slovnaft.sk

#### **GERMANY**

Im Trutz Frankfurt 49, D-60322 Frankfurt am Main, Germany Telephone: +49 69 154 04 0

Fax: +49 69 154 04 41

E-mail:

polymersales@molgermany.de

### **ITALY**

Via Montefeltro, 4 20156 Milano, Italy

Telephone: +39 02 58 30 5523

Fax: +39 02 58 30 3492

E-mail: molitalia@molgroupitaly.it

### **AUSTRIA**

Walcherstrasse 11A, 7.Stock A-1020 Wien, Austria Mobile: +43 664 96 33 578 E-mail:

KatalinHorvath@molaustria.at

#### **FRANCE**

Paris, France

Mobile: +33 7 89 86 10 64

E-mail: iren.husson@molgroupitaly.it

### **POLAND**

UI.Postępu 17D 02-676 Warszawa, Poland Telephone: +48 22 545 70 70 Fax: +48 22 545 70 60 E-mail: petchem@slovnaft.pl

#### **ROMANIA**

Str.Daniel Danielopolu 4-6 ET1 Sector 1 Cod 014 134 Bucuresti, Romania Telephone: +40 21 204 85 00 +40 21 204 85 02

Fax: +40 21 232 10 59

E-mail: petchem@molromania.ro

#### **UKRAINE**

04053 Kiev

Sichovykh Striltsiv str. 50, 5th floor, office

5-B, Ukraine

Tel.: +380 44 374 00 80 | +380 67 463

58 69

Fax: +380 44 374 00 90

E-mail: Jzavojko@mol-ukraine.com.ua

# CROATIA, SLOVENIA, SERBIA, **MONTENEGRO, BOSNIA AND HERZEGOVINA, NORTH** MACEFDONIA, ALBANIA, **KOSOVO**

Zadarska 80

HR-10000 Zagreb, Croatia Telephone: +385 1 6160 637 Fax: +385 1 6160 601

E-mail: polymersales@tifon.hr

# **OTHER EUROPEAN COUNTRIES**

Telephone:

+36 20 456 1889

+36 70 373 9209

E-mail: polymersales@mol.hu

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