TECHNICAL DATASHEET

POLYETHYLENE TIPELIN FB 472-02

HDPE for Blown films

DESCRIPTION

TIPELIN FB 472-02 is a film grade of high density polyethylene copolymer (with hexen-1 as comonomer) grade. The product has high molecular mass, very good Tear strength and Dart drop resistance, low gel content, good vapour barrier properties. The grade contains antioxidants and acid scavenger.

APPLICATIONS

TIPELIN FB 472-02 is recommended for films, bags, shopping bags, garbage bags and blend component for LDPE in shrink films.

Applications listed here are only a recommendation, not a guarantee. User is obliged to carry out own tests to assess suitability of the polymer for the intended application. This also includes the test of final articles necessary to assess compliance with relevant regulations, e.g. food contact. For more product safety related information, please see the DDS.

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	0.69
MFR - Melt Mass-Flow Rate (190°C, 5 kg)	-	ISO 1133-1	g/10 min	2.7
MFR - Melt Mass-Flow Rate (190°C, 21.6 kg)	-	ISO 1133-1	g/10 min	40
Density (23°C)	3	ISO 1183-2	kg/m³	947
Tensile Stress at Yield (MD/TD)	15	ISO 527-3	MPa	23 / 20
Tensile Stress at Break (MD/TD)	15	ISO 527-3	MPa	46 / 37
Tensile Strain at Break (MD/TD)	15	ISO 527-3	%	800 / 950
Flexural Modulus	3	ISO 178	MPa	1200
Elmendorf Tear Resistance (MD/TD)	15	ISO 6383-2	cN	25 / 230
Dart Drop	15	ISO 7765-1 method A	g	54
Hardness - Shore D	3	ISO 868	-	63
Vicat Softening Temperature	3	ISO 306/A 120	°C	126
OIT - Oxidation Induction Time (200°C)	-	EN 728	min	30
Recommended Film Thickness	-	-	mm	0.015 - 0.06
Recommended Processing Temperature	-	-	°C	180 - 220

*Typical properties, not to be used as specification.

(3) Values has been measured on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).
(15) Average mechanical property values of several measurements on film (MD = machine direction, TD = trans direction) thickness of 0.025 mm, blow up ratio 4:1.

PROCESSING

TIPELIN FB 472-02 can be used in conventional extrusion machines.

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Manufacturer website: https://mol.hu/en/

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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.

TECHNICAL DATASHEET

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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

MOL Plc.
H-3581 Tiszaújváros,
P.O. Box: 20, Hungary
Mobile: +36 30 411 0643
E-mail: polymersales@mol.hu

SLOVAKIA AND CZECH REPUBLIC

SLOVNAFT, a.s.
Vlčie hrdlo 1
824 12 Bratislava, Slovak Republic
Mobile:
+421 907 704 627
+421 918 716 113
+421 910 841 456
E-mail: predajpolymerov@slovnaft.sk

GERMANY

MOL Germany GmbH
Ottostrasse 5
D-80333 München, Germany
Telephone: +49 69 154 04 0
Fax: +49 69 154 04 41
E-mail:
polymersales@molgermany.de

ITALY

MOL Italia S.r.l.
Via San Vigilio, 1
20142 Milano (MI)
Telephone: +39 02 58 30 5523
E-mail: molitalia@molgroupitaly.it

AUSTRIA

MOL Austria Handels GmbH
Walcherstrasse 11A, 7.Stock
A-1020 Wien, Austria
Mobile: +43 664 96 33 578
E-mail:
KatalinHorvath@molaustria.at

FRANCE

Mr. Zoltán Marton
Mobile : +39 335 572 2306
E-mail:
zoltan.marton@molgroupitaly.it

POLAND

Slovnaft Polska S.A.
PL.Blankowy 1
00-139 Warszawa, Poland
Telephone: +48 22 545 70 70
E-mail: petchem@slovnaft.pl

ROMANIA

MOL Romania Petroleum Products SRL
Str.Daniel Danielopolu 4-6
ET1 Sector 1 Cod 014 134
Bucuresti, Romania
Mobile: +40 730 33 60 02
E-mail: petchem@molromania.ro

UKRAINE

MOL Ukraine Llc.
04053 Kyiv
Sichovykh Striltsiv str. 50, 5th floor, office 5-B, Ukraine
Tel.: +380 44 374 00 80
Mobile: +380 67 463 58 69
Fax: +380 44 374 00 90

CROATIA, SLOVENIA, SERBIA, MONTENEGRO, BOSNIA AND HERZEGOVINA, NORTH MACEDONIA, ALBANIA, KOSOVO

TIFON d.o.o.
Zadarska 80
HR-10000 Zagreb, Croatia
Mobile: +385 91 4641 023
Fax: +385 1 6160 601
E-mail: polymersales@tifon.hr

OTHER EUROPEAN COUNTRIES

MOL Plc.
Telephone:
+36 20 456 1889
+36 70 373 9209
E-mail: polymersales@mol.hu

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