

TECHNICAL DATA SHEET

POLYETHYLENE TIPOLEN FD 243-51

LDPE for blown film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

DESCRIPTION

TIPOLEN FD 243-51 is a film grade of low density polyethylene. The films made of this grade have excellent mechanical and optical properties. The grade does not contain any additives.

APPLICATIONS

TIPOLEN FD 243-51 is intended for high clarity fine films, caps. Recommended film thickness is 0.04-0.08 mm.

TIPOLEN FD 243-51 is suitable for food contact and for manufacturing of pharmaceutical packing products. The product complies with Food Contact and Pharmaceutical Regulations.

PROPERTIES

	Test method	Unit	Typical value
MFR (190 °C /2.16 kg)	ISO 1133-1	g/10 min	4.0
Density (23°C) *	ISO 1183-2	kg/m ³	922
Tensile strength (MD/TD) **	ISO 527	MPa	22/18
Tensile strain at break (MD/TD) **	ISO 527	%	280/580
Dart drop **	ISO 7765-1 method A	g	80
Haze **	ISO 14 782	%	8
Vicat softening temperature *	ISO 306/A 120	°C	92
Shore D hardness *	ISO 868	-	48

Typical properties, not to be used as specification.

* Density, Vicat Softening Temperature and Shore D Hardness have been measured on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291)

** Properties on film in M.D./T.D. - thickness of 0.07 mm (MFR=0.3 g/10min) and 0.04 mm (MFR more than 0.3 g/10min), blow up ratio 2:1

PROCESSING

TIPOLEN FD 243-51 can be used in conventional extrusion and injection machines. Recommended processing temperatures are 170 - 190 °C.

TECHNICAL DATA SHEET

POLYETHYLENE TIPOLEN FD 243-51

LDPE for blown film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

2

STORAGE AND HANDLING

Pellets are packed in 25 kg PE-LD bags and transported on stretch or shrink-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are available as well. 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. Transportation in a road silo or rail silo is also available. For more detailed information please contact SLOVNAFT and MOL Petrochemicals sales representative.

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 LDPE TIPOLEN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

SAFETY

See MSDS.

RECYCLING

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

DISCLAIMER

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 informational 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.

The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

TECHNICAL DATA SHEET

POLYETHYLENE TIPOLEN FD 243-51

LDPE for blown film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

3

MANUFACTURER

MOL Petrochemicals Co. Ltd.

Address: H-3581 Tiszaújváros,
P.O. Box: 20
Hungary

Internet: <http://mol.hu/en/polymers/products>

SALES ORGANIZATION

SLOVNAFT, a.s.

Address: Vlčie hrdlo 1
824 12 Bratislava
Slovak Republic

Telephone: +421 2 5859 7515
+421 2 5859 7622
+421 2 5859 7741
+421 2 5859 7231

E-mail: polymersales@slovnaft.sk

MOL Germany GmbH.

Address: 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

TECHNICAL SERVICE

MOL Plc.

Polymer Technical Service MOL

Address: H-3581 Tiszaújváros,
P.O. Box: 20
Hungary

Telephone: +36 49 521 540
+36 49 522 607
Fax: +36 49 886 491
E-mail: pts@mol.hu

MOL Plc.

Domestic Polymer Sales MOL

Address: H-3581 Tiszaújváros
P.O. Box: 20
Hungary

Telephone: +36 49 521 355
Fax: +36 49 886 491

E-mail: polymersales@mol.hu

MOL- Austria Handels GmbH.

Address: Walcherstrasse 11A
7. Stock
A-1020 Wien
Austria

Telephone: +43 1 211 20 1120
Fax: +43 1 211 20 1198
E-mail: JHauk@molaustria.at

TECHNICAL DATA SHEET

POLYETHYLENE TIPOLEN FD 243-51

LDPE for blown film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

4

TVK Italia S.r.l.

Address: Via Teulié, 1
20136 Milano
Italy
Telephone: +39 02 58 30 5523
Fax: +39 02 58 30 3492
E-mail: tvkitaly@it.tvk.eu

MOL Ukraine LLC.

Address: 04655 Kiev
Moskovskiy ave. 23
7th floor
Ukraine
Telephone: +380 44 374 00 80
Fax: +380 44 374 00 90
E-mail: JZavojko@mol-ukraine.com.ua

TIFON d.o.o.

Address: Savska cesta 41/XIII
HR – 10000 Zagreb
Croatia
Telephone: +385 1 6160 600
Fax: +385 1 6160 601
E-mail: polymersales@tifon.hr

Other European Countries

Telephone: +36 49 521 355
+36 70 458 4563
+36 70 373 9209
Fax: +36 49 886 491
E-mail: polymersales@mol.hu

French Liaison Representative

Address: Paris
France
Telephone: +33 1 64 32 44 17
Mobile Phone: +33 7 89 86 10 64
E-mail: husson.iren@fr.tvk.eu

SLOVNAFT Polska S.A.

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

SC. MOL Romania P.P. SRL

Address: Str. Danielopolu 4-6
ET2 Sector 1 Cod 014 134
Bucuresti
Romania
Telephone: +40 21 204 85 00
Fax: +40 21 232 10 59
E-mail: petchem@molromania.ro

January 2016