

# TECHNICAL DATA SHEET

POLYETHYLENE TIPOLEN FC 243-51

LDPE for film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

## DESCRIPTION

TIPOLEN FC 243-51 is a film grade of low density polyethylene with good molten stability and excellent processability. The films made of this grade have good mechanical properties. The grade does not contain any additives.

## APPLICATIONS

TIPOLEN FC 243-51 is intended for general purpose films, bubble films and foamed sheets. Recommended film thickness is 0.02 to 0.1 mm.

## PRODUCT COMPLIANCE

See DDS.

## PROPERTIES

Parameter	Note	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	-	ISO 1133-1	g/10 min	2
Density (23 °C)	(1)	ISO 1183-2	kg/m <sup>3</sup>	922
Tensile Strength (MD/TD)	(2)	ISO 527-1,3	MPa	24/19
Tensile Strain at Break (MD/TD)	(2)	ISO 527-1,3	%	300/600
Haze	(2)	ISO 14 782	%	10
Dart Drop	(2)	ISO 7765-1 method A	g	80
Vicat Softening Temperature	(1)	ISO 306/A 120	°C	94
Hardness Shore D	(1)	ISO 868	-	51

Typical properties, not to be used as specification.

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

(2) 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 FC 243-51 can be used in conventional extrusion machines. Recommended processing temperatures are 160-200 °C.

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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. Transportation in road silo or rail silo is also available. 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 LDPE TIPOLEN 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.

## DISCLAIMER

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## MANUFACTURER

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

## TECHNICAL SERVICE

MOL PLC.  
Polymer Technical Service MOL  
H-3581 Tiszaújváros,  
P.O. Box: 20  
Hungary  
Telephone:  
+36 49 521 540  
+36 8 24 248  
E-mail: pts@mol.hu

## SALES ORGANIZATION

### 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: tvk.info@molgroupitaly.it

### POLAND

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

### AUSTRIA

Walcherstrasse 11A, 7.Stock  
A-1020 Wien, Austria  
Mobile: +43 664 96 33 578  
Telephone: +43 1 211 20 1148  
E-mail: KatalinHorvath@molaustria.at

### FRANCE

Paris, France  
Mobile Phone: +33 7 89 86 10 64  
Telephone: +33 1 64 32 44 17  
E-mail: iren.husson@molgroupitaly.it

### ROMANIA

Str.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

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## HUNGARY

H-3581 Tiszaújváros,  
P.O. Box: 20, Hungary  
Mobile: + 36 30 447 4441  
Fax: +36 1 8877 647  
E-mail: polymersales@mol.hu

## UKRAINE

04053 Kiev  
Sichovkyh 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

## OTHER EUROPEAN COUNTRIES

Telephone:  
+36 20 506 6572  
+36 70 373 9209  
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

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

Zadarska 80  
HR-10000 Zagreb, Croatia  
Telephone: +385 1 6160 637  
Fax: +385 1 6160 601  
E-mail: polymersales@tifon.hr

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