

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN+ FC 03-03

MD LDPE for film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

BRALEN+ FC 03-03 is a film grade of low density polyethylene with increased density (MD LDPE). High rigidity, good optical properties and chemical resistance are typical for this grade. It is additives free.

APPLICATIONS

BRALEN+ FC 03-03 can be used for bags & pouches, blown films, shrink films and surface protection films, blow moulding products as well as injection moulding especially closures and seals. Recommended film thickness is 0.06 to 0.22 mm.

PROPERTIES

	Test method	Unit	Typical value
MFR (190 °C/2.16 kg)	ISO 1133-1	g/10 min	0.3
Density (23°C) **	ISO 1183-1	kg/m ³	927
Tensile strength (MD/TD) *	ISO 527-1,3	MPa	29/27
Tensile strain at break (MD/TD) *	ISO 527-1,3	%	450/550
Dart drop *	ISO 7765-1 method A	g	150
Haze *	ISO 14782	%	7
Vicat softening temperature **	ISO 306/A 50	°C	100
Tensile strength **	ISO 527-1,2	MPa	17
Shore D hardness **	ISO 868	-	49

Typical properties, not to be used as specification.

*Film properties tested using 50 µm thick blown film extruded at melt temperature of 200°C and a blow up ratio 2.5:1.

**Typical properties measured on standard injection moulded test specimen according to ISO 294-1

PROCESSING

BRALEN+ FC 03-03 can be used in conventional extrusion machines. Recommended processing temperatures are 170-220 °C.

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN+ FC 03-03

MD LDPE for 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 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. SLOVNAFT, a.s. is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time LDPE BRALEN+ 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

©2018 MOL Group. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a web site. MOL Group does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "MOL", or "MOL Group" are used for convenience, and may include any one or more of MOL Group, or any affiliates they directly or indirectly control. MOL Group, the MOL Group logo, and all other product names used herein are trademarks of MOL Plc. or Slovnaft, a.s. unless indicated otherwise.

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN+ FC 03-03

MD LDPE for film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

MANUFACTURER

SLOVNAFT, a.s.

Vlčie hrdlo 1
824 12 Bratislava
Slovak Republic
E-mail: infopolymer@slovnaft.sk

TECHNICAL SERVICE

SLOVNAFT, a.s.

Vlčie hrdlo 1
824 12 Bratislava
Slovak Republic
Telephone:
+ 421 2 5859 7250
+ 421 2 5859 7257
E-mail: polymerservice@slovnaft.sk

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: tvkitaly@it.tvk.eu

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

FRANCE

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

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

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN+ FC 03-03

MD LDPE for film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

4

HUNGARY

H-3581 Tiszaújváros,
P.O. Box: 20
Hungary
Telephone: +36 49 521 355
Fax: +36 49 886 491
E-mail: polymersales@mol.hu

UKRAINE

04073 Kiev
Stepana Bandery ave., 23, 7th floor, of. 305,
Ukraine
Telephone:
+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 49 521 355
+36 70 458 4563
+36 70 373 9209
Fax: + 36 49 886 491
E-mail: polymersales@mol.hu

SLOVAKIA AND CZECH REPUBLIC

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

CROATIA, SLOVENIA, SERBIA, BOSNIA AND HERZEGOVINA, FYR MONTENEGRO, ALBANIA, KOSOVO

Zadarska 80
HR-10000 Zagreb, Croatia
Telephone: +385 1 6160 600
Fax: +385 1 6160 601
E-mail: polymersales@tifon.hr

March 2018