

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN RB 03-23

LDPE for film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

BRALEN RB 03-23 is a general purpose grade of low density polyethylene. It is characterized by high environmental stress cracking resistance and very good mechanical properties. This grade is additive free.

APPLICATIONS

BRALEN RB 03-23 is designed for production of heavy duty and shrink films. It is well suited for blow moulding of various containers, bottles, pipes, sheets and profiles extrusion and for injection moulding. Recommended film thickness is 0.07 to 0.25 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	0.35
Density (23 °C)	(1)	ISO 1183-1	kg/m ³	920
Tensile Strength (MD/TD)	(2)	ISO 527-1,3	MPa	25/25
Tensile Strain at Break (MD/TD)	(2)	ISO 527-1,3	%	550/600
Haze	(2)	ASTM D 1003	%	14
Dart Drop	(2)	ISO 7765-1 method A	g	300
Vicat Softening Temperature	(3)	ISO 306/A 50	°C	94
Hardness Shore D	(3)	ISO 868	-	47

Typical properties, not to be used as specification.

(1) Density has been measured on pressed mould specimen according to internal method.

(2) Film properties tested using 70 µm thick blown film extruded at a blow up ratio 2.5:1.

(3) Typical properties measured on standard injection moulded test specimen according to ISO 294-1.

PROCESSING

BRALEN RB 03-23 can be used in conventional extrusion machines. Recommended processing temperatures are 170-210 °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. 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.

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%.

RECYCLING

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

SAFETY

See MSDS.

DISCLAIMER

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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
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: 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
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

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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