

TECHNICAL DATASHEET

POLYETHYLENE BRALEN+ FC 4-32

MD LDPE for film

DESCRIPTION

BRALEN+ FC 4-32 is a film grade of low density polyethylene with increased density (MD LDPE). High rigidity, excellent optical properties and low gel content are typical for films produced from this grade. The resin, when properly fabricated, shows very good draw down ability with high output. This grade is additives free.

APPLICATIONS

BRALEN+ FC 4-32 is intended for production of bags & pouches, lamination films and surface protection films.

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	4
Density (23°C)	1	ISO 1183-1	kg/m ³	929
Tensile Stress at Break (MD/TD)	8	ISO 527-1,3	MPa	20 / 19
Tensile Strain at Break (MD/TD)	8	ISO 527-1,3	%	620 / 680
Dart Drop	8	ISO 7765-1 method A	g	95
Haze	8	ASTM D1003	%	7
Gloss 20°	8	ASTM D2457	-	98
Hardness - Shore D	2	ISO 868	-	50
Vicat Softening Temperature	2	ISO 306/A 50	°C	102
Recommended Film Thickness	-	-	mm	0.15 - 0.06
Recommended Processing Temperature	-	-	°C	160 - 200

*Typical properties, not to be used as specification.

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

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

(8) Film properties tested using 50 µm thick blown film extruded at melt temperature of 170°C and blow up ratio 2.5:1.

PROCESSING

BRALEN+ FC 4-32 can be used in conventional extrusion machines.

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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. In-house production waste should be kept clean to facilitate direct recycling.

SAFETY

See MSDS.

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MANUFACTURER

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

TECHNICAL SUPPORT

POLYMER APPLICATIONS ENGINEERING
SLOVNAFT, a.s.
Vlčie hrdlo 1
824 12 Bratislava
Slovak Republic
Telephone:
+ 421 2 5859 7250
E-mail: polymerservice@slovnaft.sk

SALES OFFICES

HUNGARY

H-3581 Tiszaújváros,
P.O. Box: 20, Hungary
Mobile: + 36 30 447 4441
Fax: +36 1 8877 647
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

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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: molitalia@molgroupitaly.it

AUSTRIA

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

FRANCE

Paris, France
Mobile : +33 7 89 86 10 64
E-mail: iren.husson@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

ROMANIA

Str.Daniel 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

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

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

OTHER EUROPEAN COUNTRIES

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