

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN+ FB 4-31

LDPE for film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

BRALEN+ FB 4-31 is a film grade of low density polyethylene with good processability and optical properties. This grade is additives free.

APPLICATIONS

BRALEN+ FB 4-31 is suitable for production of non-slip blown films, surface protection films, cast films. Recommended film thickness is 0.015 to 0.040 mm. This grade can be used also for extrusion coating and injection moulding applications.

PROPERTIES

	Test method	Unit	Typical value
MFR (190 °C/2.16 kg)	ISO 1133-1	g/10 min	4
Density (23°C)	ISO 1183-1	kg/m ³	923
Tensile strength (MD/TD) *	ISO 527-1,3	MPa	21/19
Tensile strain at break (MD/TD) *	ISO 527-1,3	%	560/600
Dart drop *	ISO 7765-1 method A	g	100
Haze *	ASTM D1003	%	5.5
Vicat softening temperature **	ISO 306/A 50	°C	91
Tensile strength **	ISO 527-1,2	MPa	12
Shore D hardness **	ISO 868	-	44

Typical properties, not to be used as specification.

*Film properties tested using 50 µm thick blown film extruded at melt temperature of 170°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+ FB 4-31 can be used in conventional extrusion machines. Recommended processing temperatures are 150-190 °C.

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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

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