

TECHNICAL DATASHEET

POLYETHYLENE BRALEN+ FB 4-52

LDPE for film

DESCRIPTION

BRALEN+ FB 4-52 is a film grade of low density polyethylene with low friction, good processability and optical properties. This grade contains erucamide slip agent and antiblocking agent.

APPLICATIONS

BRALEN+ FB 4-52 is intended for production of thin slip films for automatic packaging and cast 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	923
Tensile Stress at Break (MD/TD)	8	ISO 527-1,3	MPa	17 / 17
Tensile Strain at Break (MD/TD)	8	ISO 527-1,3	%	470 / 590
Dart Drop	8	ISO 7765-1 method A	g	115
Haze	8	ASTM D1003	%	6.5
Hardness - Shore D	2	ISO 868	-	43
Vicat Softening Temperature	2	ISO 306/A 50	°C	91
Antiblock Agent Content	-	-	ppm	1800
Slip Agent Content	-	-	ppm	600
Recommended Film Thickness	-	-	mm	0.015 - 0.04
Recommended Processing Temperature	-	-	°C	150 - 190

*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+ FB 4-52 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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