

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN+ FD 4-55

MD LDPE for film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

BRALEN+ FD 4-55 is a film grade of low density polyethylene with increased density (MD LDPE). Outstanding rigidity, high stiffness, good processability and excellent optics are typical for this grade. It contains slip agent (erucamide) and antiblocking agent.

APPLICATIONS

BRALEN+ FD 4-55 can be used for blown and cast films, fine blown film, hygienic film, food packaging film, lamination film, surface protection film. Recommended film thickness is 0.015 to 0.060 mm.

PROPERTIES

	Test method	Unit	Typical value
MFR (190 °C/2.16 kg)	ISO 1133-1	g/10 min	3.5
Density (23°C)	ISO 1183-1	kg/m ³	933
Tensile strength (MD/TD) *	ISO 527-1,3	MPa	22/20
Tensile strain at break (MD/TD) *	ISO 527-1,3	%	500/650
Dart drop *	ISO 7765-1 method A	g	90
Haze *	ASTM D 1003	%	9
Vicat softening temperature	ISO 306/A 50	°C	109

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.

PROCESSING

BRALEN+ FD 4-55 can be used in conventional extrusion machines.

Recommended processing temperatures are 170-220 °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

The information provided in this publication has been compiled to the best of our present knowledge. However, in view of the various applications of polyethylene resins and the equipment used, the processing conditions may differ.

The recommendations and data herein are to be construed as informational only and do not relieve users from carrying out their own tests and experiments prior to processing in order to check suitability for a specific use. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Our products are under continuous development, therefore we reserve the right to change the information presented in this brochure at our own discretion.

The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

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