

TECHNICAL DATA SHEET

POLYETHYLENE BRALEN FB 03-53

LDPE FOR FILM

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

DESCRIPTION

BRALEN FB 03-53 is a film grade of low density polyethylene containing UV stabilizers.

APPLICATIONS

BRALEN FB 03-53 is designed for production of technical and shrink wrapping films, especially where a good weathering resistant is required. Films are characterized by very good mechanical properties. Films for agriculture usage are typical applications. Recommended film thickness is 0.07-0.25 mm. The lifetime of 0.12 mm thick films made of **BRALEN FB 03-53** under Middle European climate conditions is approximately two years. In the case of the film thickness down-gauging or mixing of **BRALEN FB 03-53** with other polymers the lifetime is reduced.

BRALEN FB 03-53 is not recommended for food contact applications.

PROPERTIES

	Test method	Unit	Typical value
MFR (190 °C /2.16 kg)	ISO 1133-1	g/10 min	0.35
Density (23°C) *	ISO 1183-1 method C	kg/m ³	919
Tensile strength (MD/TD) **	ISO 527-1,3	MPa	24/23
Tensile strain at break (MD/TD) **	ISO 527-1,3	%	450/550
Dart drop **	ISO 7765-1 method A	g	300
Vicat softening temperature *	ISO 306/A 50	°C	94
Shore D hardness *	ISO 868	-	47

Typical properties, not to be used as specification.

* Average mechanical property values of several measurements carried out on standard injection-moulded test specimens prepared in accordance with ISO 1872-2.

** Properties on film in M.D./T.D. - thickness of 0.07 mm (MFR=0.35g/10min) and 0.04 mm (MFR more than 0,35g/10min), blow up ratio 2.5:1.

PROCESSING

BRALEN FB 03-53 can be used in conventional extrusion machines. Recommended processing temperatures are 170-210 °C.

STORAGE AND HANDLING

Pellets are packed in 25 kg PE-LD bags and transported on stretch or shrink-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 TVK 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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