



TECHNICAL DATA SHEET

EVOH/EPE/EVOH LINERS

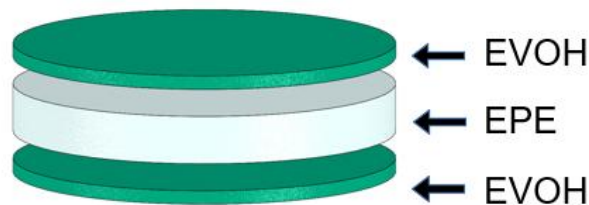
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Liners are made from closed cell EPE foam coated with barrier film on both sides. EPE foam is produced in process of extrusion. Liners with EPE/EVOH foam have better barrier properties than standard ones.

EVOH is a copolymer of ethylene and vinyl alcohol and it is **PVDC free**.

Application: For sealing closures used on bottles or jars containing carbonated and non-carbonated beverages, non-alcoholic beverages, including mineral waters and juices, oils, face creams, and alcoholic beverages with an alcohol content of up to 95%, including wine.



Available diameters:

Od 14,55 mm do 40,60 mm with tolerance $\pm 0,15$ mm

Od 42,00 mm do 57,37 mm with tolerance $\pm 0,25$ mm

Other diameters are available upon request.

Technical parameters:

- Density: **250 – 460 kg/m³**
- Thickness: **1,5 – 3,0 mm**
- Flatness: **max. 10%**
- Thickness of the EVOH film: **50 μ m**
- Thickness of the EPE core depends from the Customer's need.
- Density and thickness with tolerance: **± 10 %**.
- Hardness for density 300 kg/m³: **77^oSh** with tolerance ± 5 %.
- Maximum pressure for EVOH liners: **2,5-3 bar**



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Permeability of EVOH/EPE/EVOH layer:

- **Oxygen transmission rate:** < 1 [cm³/m² . 24h] (A: $4,7 \times 10^{-4}$ B: $5,8 \times 10^{-4}$)
- **Water vapor permeability:** $0,32 \pm 0,050$ [g/m² . 24h . 0,1MPa]

EVOH layer is a barrier against gas (oxygen, carbon dioxide), flavour, aroma, odours, fuel vapour chemical products, MOSH/MOAH and organic solvents.

Packing:

Liners are packed loose in carton with polyethylene bag.

Storage and Handling:

Liners should be stored at temperatures in the range **15°C – 35°C**.

If stored at lower temperatures the material should wait before processing for about **24 hours** until it reaches room temperature (**15°C – 25°C**).

Period of the usefulness is 2 years after production date.

Do not stack pallets one on another– it may cause in deformation of boxes and liners inside of them.

Attention:

GI ensures the quality of every batch through an Integrated Quality System certified in accordance with the **ISO 22000:2005** and **ISO 9001:2015** standards.

If there are no negative back information, after **90 days from the delivery date**, the batch is considered **accepted by the Customer**.

The customer is responsible for inspecting whether our product is suitable for the Customer's particular purpose.

The GI company isn't bearing responsibility for using in discord with the specification, storing, conditions and manners of the treatment with our products at the user.

Description of our products in this **TDS** is based on our knowledge and information from current examinations and it is reliable as of the date of publication.