Technical Data Sheet

Product: Co-Extruded Polyethylene Liner - F217-3

Product Description

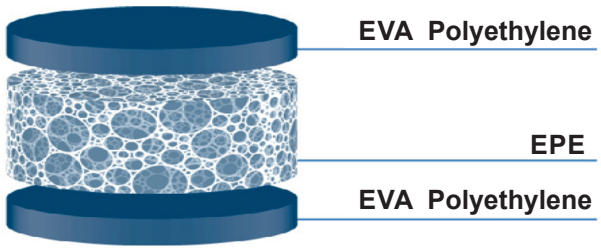
• Tri Seal F 217-3 is a patented three layer co-extruded product: two solid polyethylene surfaces cover a central layer of foamed polyethylene with closed cells. This structure is a single polymeric unit which cannot delaminate.

• Construction: solid PE-EVA / foamed EPE / solid PE-EVA

• Tri Seal F 217-3 is developed especially for use in aggressive media where normal LDPE would be subjected to stresscracking.

• The foamed center core provides the resiliency needed for sealing and the solid facings prevent evaporation and product penetration.

Liner Drawing



Liner Characteristics

Standard Thicknesses (mm): **0,75 / 1,00 / 1,25 / 1,50 / 1,75 /2,00 / 2,25 / 2,50**
with tolerance: ±12%

Density: **350 kg/m³** (tolerance +15%)

Color: **White**

Chemical Attributes

The special three layer structure ensures not only an excellent mechanical strength, but also a superior chemical resistance thanks to pure and solid polyethylene facings of Tri Seal F 217-3.

After literature study of the effects of chemicals on F 217-3 in combination with actual testing the following recommendations can be made:

E – Excellent **L – Limited** **U – Unsatisfactory**

Method:
Complete immersion of pre-cut pieces in testing medium at 23 °C during 8 weeks

Alcohols	E
Aliphatic Hydrocarbons	E
Alkalis	E
Aromatic Hydrocarbons	E
Esters	E
Halogenated hydrocarbons	E
Ketones	E
Mineral Acids	E
Mineral Oils and Fuels	E
Water and Aqueous Salt Solutions	E

Please note that these results are only indicative. Therefore it is strongly suggested to test the material in contact with the specific product.

Advantages

• Mechanically strong
• Excellent chemical resistance
• Good compressibility
• No lamination, no glue
• No discoloration
• Good machineability
• No absorption
• Ideal application and removal torque
• No dusting: foam particles cannot come loose
• Non-toxic and free of odours and taste
• Cost efficient; no additional lamination activity

Food Contact Approval

• The ingredients of Tri Seal F 217-3 are authorised by the regulations of FDA, BfR and Commision Regulation (EU) No. 10/2011.
• The contact layer of F 217-3 is in compliance with the requirements of the European Pharmacopoeia 8th edition :
• Monograph 3.1.3: "Polyolefins"
• This formulation is also listed with the FDA in DMF 12087

Storage and Handling

• The material must be protected from direct sunlight and high atmospheric humidity and stored for the period of 1 year.
• It is also recommended to store the material at room temperature (15°C – 25°C). If stored at lower temperatures the material should be acclimatized before processing for about 24h until it reaches room temperature (15°C – 25°C).