

TEKNIFLEX® MAB

Modified Atmosphere Blister

The first transparent thermoformed PCTFE blister going beyond Cold Form Foil: "dry the product and keep it dry".

Suitability for the intended use

Protection

Stretch the excellent barrier properties of transparent thermoformed 2 and 3 layer PCTFE laminates beyond those of Cold Formed Foil by adding CSP Technologies' Activ-Strip®. Incorporate this polyethylene desiccant strip in the rib design of the blister card and link every cavity with the Activ-Strip®. Activ-Strips® may also be filled into a specially formed dual chamber cavity or heat staked to the aluminum lidding foil.

Reduce head space moisture content from ambient to < 10 % RH after filling by drying both the product and the headspace or just extend the shelf life of your current products.

Compatibility

The Activ-Strip® is not in direct contact with the product. It is dust free, as integrated in the polymer, using CSP Technologies' patented technology.

Not a concern as no direct contact, and molecular sieve is embedded in pharma grade PE.

Safety

While not a direct product contact material in this application, Activ-Strip® is used as a direct contact lining in food and pharma applications. The material complies with the relevant EU and US regulations.

21 CFR, USP, CONEG, DMF 14789 2002/72/EC, 94/62/EC, BSE/TSE

Performance

Performance can be tailored by using different sheets thicknesses, sheet sizes (surface area) and desiccants (Molecular sieve – MS, or Silica gel – SG).

SG or MS 0.6 mm thick Activ-Strip® capacity : 10 or 9.9 mg/cm²

Intermediate Test Results (TEKNIFLEX® VA7200 MAB @ 40°C/75%RH)

Reference (10 to 60 %RH indicator dots, no CSP Activ-Strip®)



40% RH after 8 weeks 40/75 with 1 CSP Activ-Strip®



< 10% RH after 12 weeks 40/75 with 2 CSP Activ-Strips®



When tested with TEKNIFLEX® VA7200, one CSP Activ-Strip® maintains the headspace dry for approximately 2 months at ICH accelerated stability conditions (40°C/75%RH). At the 3 months time point, the same blister card with two CSP Activ-Strips®, maintains the headspace below 10 %RH.

Three CSP strips can guarantee a dry headspace for 2 years at ICH long term storage conditions (25°C/65%RH). More experiments are on-going (March 16, 2005).

TEKNIFLEX® is a registered trademark of Tekni-Plex, Inc.

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