SPS Accessories
Permeability Kit

The Permeability Kit enables the precise determination of the permeability of foils and films with the SPS moisture sorption instruments.

The Permeability Kit works on the basis of the EN ISO 7783-1 for the determination of water-vapor transmission rate part 1: "Dish method for free films".

With the Permeability Kit, the SPS instrument determines the mass of water vapor transmitted over a given period through a test piece of given surface area under specified constant conditions of relative humidity at each face of the test piece.

Technical data

Number of samples: 5 samples & 1 reference
Surface area: 3500 mm² per sample
Minimum detectable transmission rate: 0.05 g/(m² * day)
Accuracy: within the minimum detectable transmission rate
Maximum thickness of foil: 0.3 mm (depending on material characteristics)
Net weight per sample dish: 44 g ±1 g
Dimensions:
- Outside diameter: 80 mm
- Inside diameter: 66.8 mm
- Height of sample dish: 17 mm
- Total height: 22 mm

Compatibility:
The Permeability Kit can be used with the following SPS instruments:
- SPS11-10µ all series
- SPSx-1µ series 3 until March 2012
- SPSx-1µ version “High Load” after March 2012

The permeability kit is not compatible to SPS23-100n and to SPSx-1µ Advance instruments

Contents of the kit:

Sample tray:
- 6 sample positions for 80 mm samples

Sample fixtures 80 mm:
- Five sample fixtures with coating SC650
- One uncoated reference

Drying agent:
- Molecular sieve 3 Å 1.6 - 2.5 mm - (250 g)

Tool kit:
- 1 scalpel handle
- 100 blades shape 11
- PTFE paste for metallic foils

Manual:
- SPS Permeability Kit

Subject to modifications in the interest of technical progress.