

## PRODUCT DATA SHEET

# Gas permeable sealing foil with evaporation reduction and perforated silicone layer for automation

Art.-No.: F-GPRS48-10



### Technical parameters

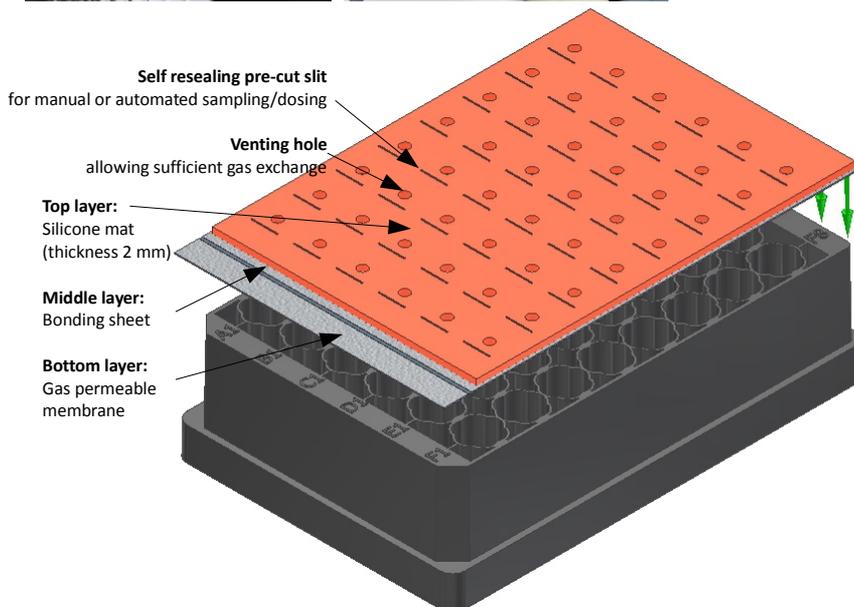
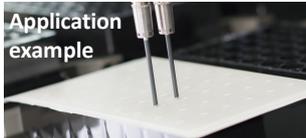
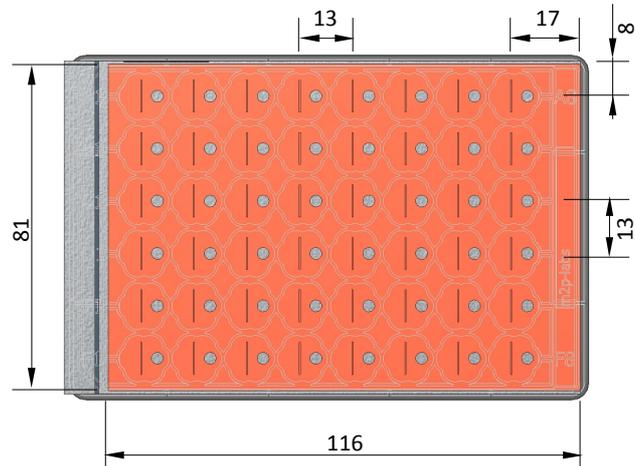
Specification	Description
Type	<ul style="list-style-type: none"> <li>- <b>Three layer sandwich membrane</b></li> <li>- <b>Top layer:</b> silicone mat thickness 2 mm, including venting holes and pre-cut slits for automated or manual sampling/dosing</li> <li>- <b>Middle layer:</b> non gas permeable bonding sheet including venting holes</li> <li>- <b>Bottom layer:</b> gas permeable non-woven membrane (see art. no. F-GP-10)</li> <li>- <b>Venting holes</b> reduce cross section for evaporation (see art. no. F-GPR48-10)</li> <li>- Self <b>resealing pre-cut slits</b> for penetration by syringe (manual) or robotc tips (automated)</li> <li>- Recommended for <b>long term cultivations</b></li> <li>- Only suitable for <b>48 well</b> microplates</li> </ul>
Other information	<ul style="list-style-type: none"> <li>- Autoclavability: no</li> <li>- For single use only</li> <li>- Unit size: 2 x 5 pcs. in resealable bags</li> <li>- Medical grade adhesive</li> <li>- Temperature range: -20 – 80 °C</li> <li>- Sterile packed (<math>\gamma</math>-radiation, 15 kGy)</li> </ul>

### Technical data: Performance

Evaporation rate * <sup>1</sup>	Atmosphere (Air)	Shaking conditions
1.3 ±0.2 %/d * <sup>2</sup>	Humidified (> 85% rel. hum.)	BioLector® n = 1100 rpm
6.0 ±0.1 %/d * <sup>2</sup>	Not humidified (≈ 35% rel. hum.)	d <sub>0</sub> = 3 mm * <sup>3</sup>
5.4 ±0.2 %/d * <sup>2</sup>	Not humidified (≈ 35% rel. hum.)	Shaking incubator n = 250 rpm d <sub>0</sub> = 25 mm * <sup>3</sup>

### Top view

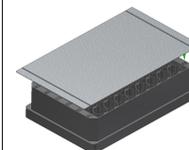
#### Dimensions for automation [mm]



### Also available specialized sealing foils

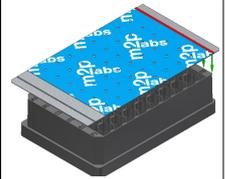
Art. No. F-GP-10

For short term cultivations, suitable for all types of microplates



Art. No. F-GPR48-10

Recommended for long term cultivations with minimized evaporation



\*<sup>1</sup>: FlowerPlate®, V<sub>L</sub> = 1000 µL, T = 37 °C  
 \*<sup>2</sup>: Gravimetrically determined with water  
 \*<sup>3</sup>: Shaking diameter

**INFORMATION** contained in this document or drawing is proprietary to m2p-labs GmbH. This document may not be reproduced in the whole or in parts for any reason without written permission from m2p-labs GmbH. All rights of design, invention and copyright are reserved.