STyLUX® is a hydrophilic PES membrane filter compatible with a wide range of liquids. It withstands a wide pH range (1-14) and is suited for removal of microorganisms and particulates in high-purity liquids and aqueous chemicals. The filter's asymmetric membrane provides absolute retention but also superior flow rates and contaminant capacity. The STyLUX® filter delivers reliable and consistent high-quality performance and is ideal for prefiltration or final filtration when sterility assurance is not required.

Materials of Construction
All components of the STyLUX® mini capsule are animal component free. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
<th>CFR Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membrane</td>
<td>Polyethersulfone</td>
<td>Title 21, 177.2440</td>
</tr>
<tr>
<td>Upstream support</td>
<td>Polypropylene</td>
<td>Title 21, 177.1520</td>
</tr>
<tr>
<td>Downstream support</td>
<td>Polypropylene</td>
<td>Title 21, 177.1520</td>
</tr>
<tr>
<td>Outer guard</td>
<td>Polypropylene</td>
<td>Title 21, 177.1520</td>
</tr>
<tr>
<td>Core</td>
<td>Polypropylene</td>
<td>Title 21, 177.1520</td>
</tr>
<tr>
<td>End caps</td>
<td>Polypropylene</td>
<td>Title 21, 177.1520</td>
</tr>
<tr>
<td>Capsule housing</td>
<td>Polypropylene</td>
<td>Title 21, 177.1520</td>
</tr>
<tr>
<td>Sealing method</td>
<td>Thermal bonding</td>
<td></td>
</tr>
</tbody>
</table>

Pore Size
0.6 µm

Operating Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>32 °F to 122 °F (0 °C to 50 °C)</td>
</tr>
<tr>
<td>Maximum operating pressure</td>
<td>100 psig @ 122 °F (6.9 bar @ 50 °C)</td>
</tr>
<tr>
<td>Maximum temperature rating</td>
<td>160 °F @ 35 psig (72 °C @ 2.4 bar)</td>
</tr>
<tr>
<td>Maximum reverse pressure</td>
<td>15 psig @ 100 °F (1.0 bar @ 38 °C)</td>
</tr>
</tbody>
</table>

Sterilization

Autoclave: 121 °C to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 minutes, ≥ 3 cycles.
Gamma irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules.
Capsules must not be in-line steam sterilized.

Biological Safety

STyLUX® filters meet the requirements as specified in the current USP <88> Class VI plastics, physicochemical, oxidizable substances, and USP <87> cytotoxicity tests. Bacterial endotoxin levels in aqueous extracts of STyLUX® filters are less than 0.5 EU/mL, as determined using the Limulus amebocyte lysate (LAL) test USP <85>. No binders, adhesives or surfactants are used in the construction of STyLUX® filters. Filters comply with European Commission Regulation No 10/2011.

Quality Assurance

STyLUX® filters comply with the Food and Drug Administration Code of Federal Regulations, Title 21, Parts 210 and 211. Product is manufactured and packaged in a cleanroom facility that, through voluntary compliance, meets or exceeds FDA Good Manufacturing Practice Standards. To ensure product reliability, Meissner’s Quality Assurance staff continually audits the manufacturing process for conformance to its Quality Management System. Each STyLUX® filter is clearly marked with filter type, lot number and serial number.
Ordering Guide

Capsule Options
- Standard capsule: C
- Sterile capsule: G

Effective Filtration Area
- 0.45 ft² (415 cm²): K
- 0.36 ft² (334 cm²): M

Housing Material Designator
- Gamma-stable polypropylene, animal component free (ACF): 2

Product
- STyLUX® hydrophilic PES membrane

Grade Retention Rating
- SL 0.6 µm

Vent/Drain Ports
- 0: No vent/drain port
- 1: One luer port with cap, inlet side
- 2: Standard; two luer ports with caps
- 4: Two sanitary valves with hose barbs
- 5: One sanitary valve with hose barb, inlet side
- 6: One sanitary valve with hose barb, outlet side

Inlet/Outlet Connections
- 11: 1/4" hose barb
- 1B: 1/4" hose barb w/filling-bell
- 22: 3/8" hose barb
- 2B: 3/8" hose barb w/filling-bell
- 41: 1/4" MNPT, 1/4" hose barb outlet
- 44: 1/4" MNPT
- 71: 3/4" sanitary flange inlet, 1/4" hose barb outlet
- 72: 3/4" sanitary flange inlet, 3/8" hose barb outlet
- 77: 3/4" sanitary flange

Additional information about this filter product is available in the STyLUX® Green Docs document at www.meissner.com/green-docs.

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