Poly-MAXX G
Polypropylene Pleated Depth Cartridges

The Poly-Maxx G, all-Polypropylene, nominally rated filter cartridge is designed to reduce overall filtration costs when compared to spunbonded, stringwound and nominally-rated pleated cartridges. The Poly-Maxx G media is designed and manufactured on state-of-the-art meltblowing equipment under Strainrite’s strict specifications for high solids loading requirements in a variety of prefiltration applications.

Poly-Maxx G is constructed using the latest high-speed thermal bonding equipment in a clean environment to ensure superior product cleanliness and thermal and chemical compatibility. All of these depth cartridges are manufactured using 100% virgin Polypropylene materials that comply with FDA Title 21 of The Code of Federal Regulations for food and beverage contact.

Features and Benefits
- MAXX-imum pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per cartridge
- FDA Title 21 compliant for food and beverage contact
- Lower pressure drops, which yield higher flow rates and reduced processing time
- 100% Polypropylene construction offers a wide range of chemical compatibility
- Thermally bonded construction to ensure a cleaner filtrate

Typical Applications
- Wine clarification
- Water filtration
- Solvent filtration
- RO/DI prefiltration
- Liquefied sugar
- Waste Water

Rev. April, 2013
**Product Specifications**

**Materials of Construction**
- **Filter Media:** Polypropylene Microfiber
- **Pleat Support:** Polypropylene
- **End Caps:** Polypropylene
- **Cage/Core:** Polypropylene
- **Sealing:** Thermal Bond
- **Seals:** Buna N, Fluorocarbon, EPDM, FEP Encapsulated Fluorocarbon, PTFE, Silicone

**Dimensions**
- **Outside Dia:** 2.7” (6.87cm)
- **Lengths:**
  - 10” (25.4cm), 20” (50.8cm), 30” (76.2cm), 40” (102cm)

**Performance Specification**
- **Retention Rating:** 0.25, 0.50, 1.0, 2.5, 5.0, 8.0, 12.0, 20.0, 30.0, 50.0
- **Maximum Forward Differential Pressure**
  - 75 psid (5.1 bar) @ 68°F (20°C)
  - 40 psid (2.8 bar) @ 150°F (65°C)
- **Maximum Operating Temperature**
  - 180°F (82°C) Continuous Duty

**Toxicity**
All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

**Packaging Economy**
Bulk packaging in case quantities to reduce material disposal:
- 10 inch: 24 per carton
- 20 inch: 12 per carton
- 30 inch: 12 per carton
- 40 inch: 9 per carton

---

**PMXG Pressure Drop vs. Flow Rate**

![Differential Pressure vs Flow Rate Graph](image)

**Product Efficiency**

<table>
<thead>
<tr>
<th>Micron Rating</th>
<th>Length</th>
<th>End Cap Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PMXG</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.25</td>
<td>10</td>
<td>C1-DOE flat open ends</td>
</tr>
<tr>
<td>0.50</td>
<td>20</td>
<td>C2-SOE recessed cup, internal 213 O-ring</td>
</tr>
<tr>
<td>1</td>
<td>30</td>
<td>C3-SOE flat closed ends, external 222 O-ring</td>
</tr>
<tr>
<td>2.5</td>
<td>40</td>
<td>C4-SOE flat closed end</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>C5-SOE recessed cup, external 222 O-ring</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>C6-SOE flat closed end, external 226 O-ring</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>C7-SOE fin end, external 226 O-ring</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>C8-SOE fin end, external 222 O-ring</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Gasket/O-ring Materials**
- **S** - Silicone (standard O-rings)
- **B** - Buna N (standard gaskets)
- **V** - Fluorocarbon
- **E** - EPDM
- **T** - PTFE
- **TV** - FEP Encapsulated Fluorocarbon
- **TS** - FEP Encapsulated Silicone

**Cartridge Grade**
- Blank-General
- 1 - FDA Grade
- 2 - Pharmaceutical

**Options**
- I - 316 Stainless Steel Insert
- DIF - DI Flush