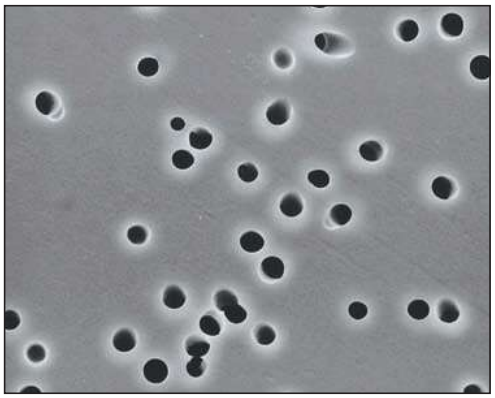
## Polycarbonate

- **Characteristics:** Low non-specific binding and optically translucent, extremely uniform, cylindrical pores
- **Thin screen-type membranes** minimize entrapment within the filter structure; resulting in surface capture of particles on the membrane
- **Stable:** excellent chemical resistance, good thermal stability, non-hygroscopic and extremely weight stable
- **Autoclavable:** at 121°C, 30 min.



Polycarbonate

### Applications

- Epifluorescence microscopy: available in black for this method
- Electron microscopy: smooth surface is ideal for observing captured particles
- Light microscopy: easily transparentized for optical illumination
- Beverage and sterility testing

### Specifications: Polycarbonate Membrane, Code K

| Pore Size (µm) | Bubble Point [1] | | Flow Rate [2] | | Nominal Thickness (µm) |
|---|---|---|---|---|---|
| | MPa | psi | Water (mL/min/cm²) | Air (L/min/cm²) | |
| 0.10 | ≥0.21 | ≥30 | 2.5 | 1.5[3] | 6 |
| 0.20 | ≥0.14 | ≥20 | 10 | 3[3] | 10 |
| 0.40 | ≥0.083 | ≥12 | 33 | 7.5[3] | 10 |
| 0.80 | ≥0.048 | ≥7 | 90 | 18[3] | 9 |
| 1.00 | ≥0.041 | ≥6 | 130 | 20[4] | 11 |
| 3.00 | ≥0.014 | ≥2 | 440 | 37.5[4] | 9 |
| 8.00 | ≥0.0048 | ≥0.7 | 1000 | 30[4] | 7 |

Maximum operating temperature = 140°C

**Definitions:**
1. Bubble point is the minimum pressure required to force air through a membrane which has been prewet with isopropylalcohol
2. Initial flow rates using prefiltered water at 10 psid (0.7kg/cm²)
3. Initial flow rates using prefiltered air at 10 psid (0.7kg/cm²)
4. Initial flow rates using prefiltered air at 5 psid (0.35kg/cm²)

### Ordering Information: Polycarbonate – Nonsterile

**Plain White, package of 100 disks**

| Pore Size (µm) | 13 mm | 25 mm | 47 mm |
|---|---|---|---|
| 0.10 | K010A013A | K010A025A | K010A047A |
| 0.20 | K020A013A | K020A025A | K020A047A |
| 0.40 | K040A013A | K040A025A | K040A047A |
| 0.80 | K080A013A | K080A025A | K080A047A |
| 1.00 | K100A013A | K100A025A | K100A047A |
| 3.00 | K300A013A | K300A025A | K300A047A |
| 8.00 | K800A013A | K800A025A | K800A047A |

**Plain Black, package of 100 disks**

| Pore Size (µm) | 25 mm | 47 mm |
|---|---|---|
| 0.20 | K020N025A | K020N047A |
| 0.40 | K040N025A | K040N047A |

Please ask customer service for other pore size (0.60, 2.00, 5.00, 10.0, 12.0 µm) and disk diameter (37, 43, 76, 90, 142 mm).