

# GLASS CAPILLARY ARRAY

Enabling the vision of tomorrow through massively parallel analysis.

Incom's GCAs are dense arrays of flow-through glass capillaries with large cross-sectional areas and high length-to-diameter ratios. Currently manufactured with internal diameters as small as  $5\mu\text{m}$ , these arrays are produced with a fire polished smooth ID and are chemically resistant. The capillaries can be made in either a clear format or black, optically isolated format. Incom currently has the ability to manufacture arrays as large as 230mm x 230mm x 400mm (L x W x D), which can be formed to any specified dimensions. The process is scalable and fully customizable to meet your individual requirements.

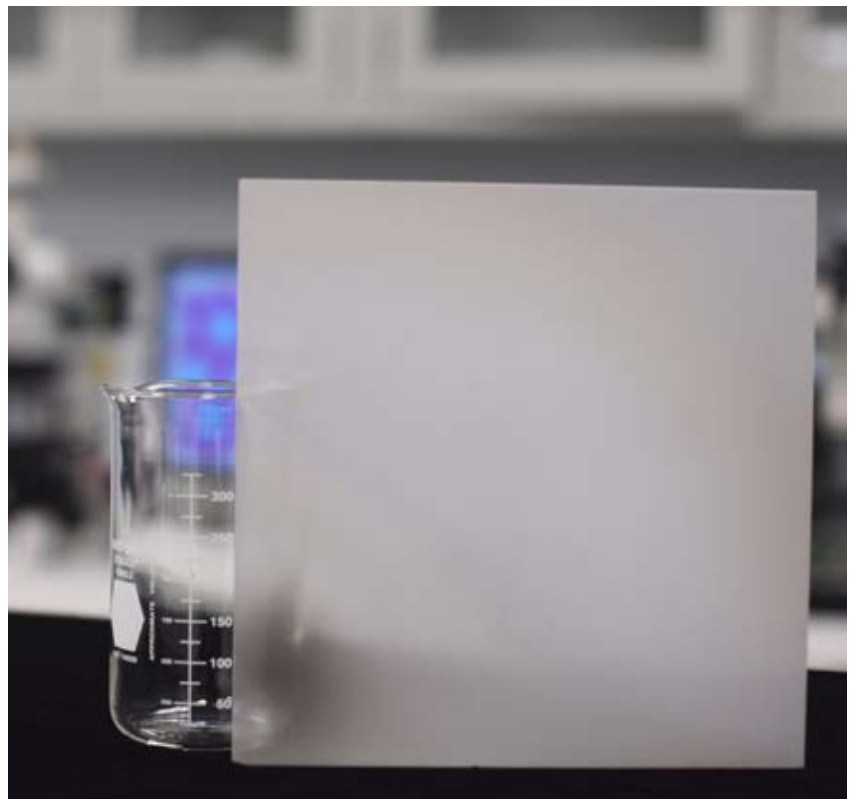
## FEATURES

- High length-to-diameter ratio
- Large active area  
(up to 230mm x 230mm)
- High open area ratio (up to 80%)
- Pore diameters as small as  $5\mu\text{m}$
- High heat resistance (700°C MAX)
- Custom fabrication solutions
- Chemically resistant
- Fire polished ID's
- Wide variety of glass options

## APPLICATIONS

- Micro Channel Plates (MCP)
- DNA Sequencing
- Polymerase Chain Reaction (PCR)
- Cell Sorting
- Transfection
- Cell Migration
- Microfluidic Analysis

## GLASS CAPILLARY ARRAY



## SPECIFICATIONS

Incom's capillary arrays are available in many different sizes with many different types of materials available. Incom is also capable of producing unique patterns and shapes, to satisfy your specific needs. The common materials used for these parts are listed below. Please contact us so we can assist with your custom requests.

	<b>C5</b>	<b>C14</b>
Index of Refraction	1.49	1.54
Density of Glass (g/cm <sup>3</sup> )	2.3	2.6
Open Area Ratio (O.A.R.)	60%	70%
CTE (Coefficient of Thermal Expansion (x 10 <sup>-7</sup> /C)	55	46