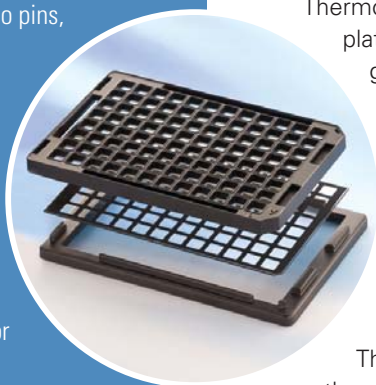


## Hybrid Microarray and Multiplexing Platform

### Product Highlights

- SBS compliant
- Premium select glass for superior binding surface
- High-throughput microtiter-plate format
- Easy to assemble – no pins, clips or screws
- Compatible with microplate-handling systems and other lab automation
- Design prohibits well-to-well cross contamination
- Scannable from top or bottom; flips for easy scanning
- Spot glass surface separately or when assembled

To order, contact [productinfo.microarray@thermofisher.com](mailto:productinfo.microarray@thermofisher.com) or call 1-800-258-0834 in North America or, worldwide, 1-603-431-8410.



## 96-Well Platform for High Throughput Microarrays Increases Speed and Volume of Multiplex Applications

We've taken a glass substrate and plastic well plate and created the Thermo Scientific SmartPlex – a hybrid microarray and multiplexing platform that is better than either structure alone. With SmartPlex, you get the best of both worlds: the superior binding qualities of glass in a range of widely accepted surface chemistries *and* the universally accepted, high throughput format of a microtiter plate.

SmartPlex shifts microarrays to a 96-well configuration, evolving toward an “ELISA-like” format that increases the speed and volume of your multiplex applications. Because it conforms to SBS microplate standards, SmartPlex is amenable to the automated processing of thousands of samples per day.

This higher throughput configuration is a natural step in providing the next generation of analytical tools for genomic and proteomic measurements.

SmartPlex features the premium select, low-fluorescence microarray glass that customers have come to expect from Thermo Fisher Scientific. Each substrate is selected for its high quality, flatness and tight tolerances and is available with surface modifications such as aminosilane, epoxy silane or poly-L-Lysine.

Cross contamination is not an issue with SmartPlex. Each well is isolated with a hydrophobic mask and adhesive to prevent well-to-well contamination. The adhesive has been extensively tested by assaying biological materials and typical laboratory chemicals over extended time periods. No interaction, degradation of the adhesive layer, or contamination was found.

Designed without pins, screws or clips, SmartPlex snaps together for a perfect fit. It is compatible with microplate-handling systems and other lab automation, as well as standard low-profile plate lids and microplate sealers.

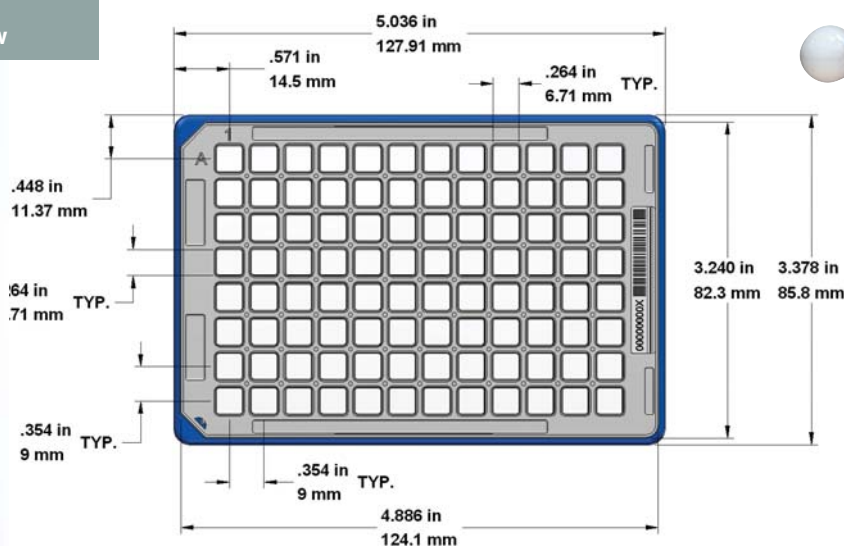


# Technical Specifications

## Thermo Scientific SmartPlex Hybrid Microarray

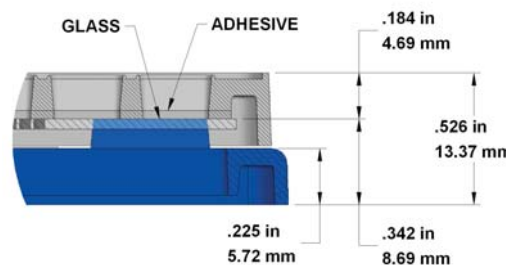
TOP VIEW	MM	INCH
Base length	127.91	5.036
Base width	85.80	3.378
Top length	124.10	4.886
Top width	82.30	3.240
Outside of base to center of wells in row A	11.37	0.448
Outside of base to center of wells in column 1	14.50	0.571
Well-to-well distance (X and Y)	9.00	0.354
Well size (X and Y)	6.71	0.264

Top View



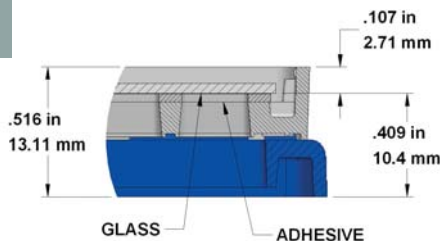
CUT-AWAY VIEW, WELLS FACING UP	MM	INCH
Overall height	13.37	0.526
Flange height	5.72	0.225
Height to top of glass	8.69	0.342
Well depth	4.69	0.184

Cut-Away View, Wells Facing Up



CUT-AWAY VIEW, WELLS FACING DOWN	MM	INCH
Overall height	13.11	0.516
Flange height	5.72	0.225
Height to arrayed glass surface	10.40	0.409
Top of plate to array surface	2.71	0.107

Cut-Away View, Wells Facing Down



Material: Virgin Polystyrene  
 Color: Black  
 Glass Thickness: 1.0mm  
 Recommended maximum array size: 5mm x 5mm  
 Recommended maximum volume: 180µL