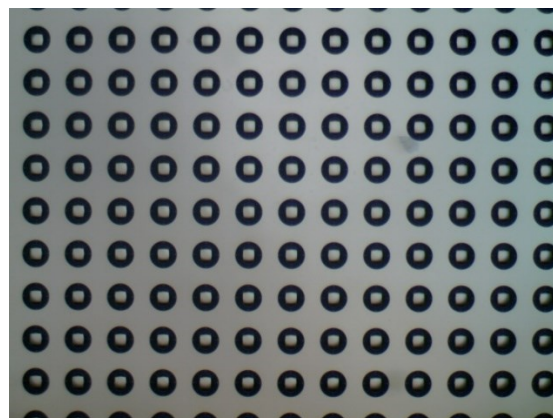


Technical Data Sheet

MicroBubble™ Arrays

SiMPore Microbubble™ Arrays are formed using a proprietary Gas Expansion Molding (GEM™) process which creates arrays of hemispherical microcavities within a silicone substrate layer. This unique microenvironment is ideally suited for single-cell culture and assays, organoid cultivation, and a range of other cell and tissue culture applications when integrated into a range of consumables including multiwell plates and chambered slides.



MicroBubble™ Array Dimensions (Typical Values)

Part Number	Cavity Opening Diameter (µm)	Cavity Diameter (µm)	Cavity Pitch (µm)	MB Layer Thickness (mm)	Cavities / cm ²
MB50	50 ± 5 (49 ± 2)	100 ± 25 (120 ± 3.3)	200 ± 20 (192 ± 2)	0.8 – 1.4 (1.2)	4,400 (4,400)
MB100	100 ± 10 (*)	200 ± 50 (*)	400 ± 40 (*)	0.8 – 1.4 (*)	1,100 (1,100)
MB200	200 ± 20 (188 ± 7)	400 ± 100 (496 ± 8)	800 ± 80 (794 ± 11)	0.8 – 1.4 (1.4)	250 (250)

*Values not yet established

MicroBubble™ Array Cultureware Properties

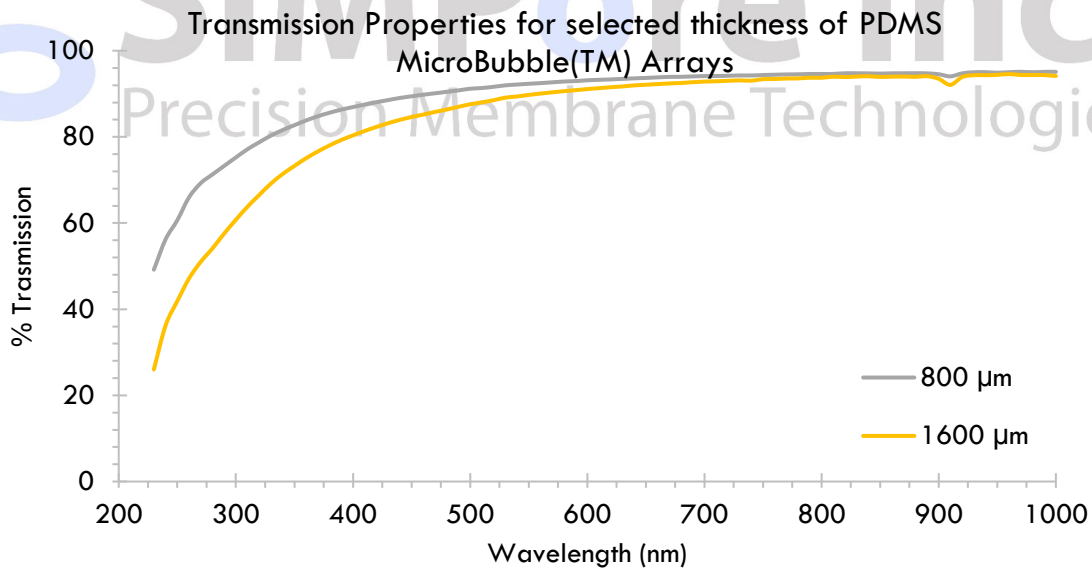
Product Format	Culture Area / Well (µm)	Recommended Well Volume (mL)	Wetted Materials	Max Focal Length (mm)	Vented Lid
Chamber Slide: 2-Well	4.0 cm ²	2	Polystyrene, PDMS	2.5	Yes
Chamber Slide: 4-Well	1.7 cm ²	1	Polystyrene, PDMS	2.5	Yes
Multiwell plate: 6-Well	9.6 cm ²	3	Polystyrene, PDMS	1.5	Yes
Multiwell plate: 12-Well	3.8 cm ²	2	Polystyrene, PDMS	1.5	Yes
Dish: 35mm	8.8 cm ²	3	Polystyrene, PDMS	1.5	Yes
Dish: 60mm	20.8 cm ²	5	Polystyrene, PDMS	1.5	Yes

MB Array Material Properties

Property	Test method	Typical value	Specification
Color	Visual Inspection	Transparent	-
Surface Wettability	Inspection ¹	Hydrophobic ²	-
Thickness (mm)	Inspection ¹	1.5	0.8-1.6
Density (g/cm ³)	Vendor Provided ¹	1.07	-
Durometer, Shore A	ASTM D2240 ¹	50	40-60
Compression Set (%)	ASTM D395 ¹	<35	-
Tensile Strength (mPa)	ASTM D412 ¹	7.17	> 4.8
Elongation (%)	ASTM D412 ¹	140	> 100
Tear Resistance (kN/m)	ASTM D624 ¹	2.6	> 70

¹ Utilizes internally derived and vendor provided material data

² Sessile water contact angle >100°



Nidus Microbubble Array™ Products

Part No.	Part Name	Pack Size	Price
MB50-2W-001	MicroBubble Array™ 2-Well Chamber Slide (50-micron, Untreated, Non-sterilized)	(5) units	\$250.00
MB100-2W-001	MicroBubble Array™ 2-Well Chamber Slide (100-micron, Untreated, Non-sterilized)	(5) units	\$250.00
MB200-2W-001	MicroBubble Array™ 2-Well Chamber Slide (200-micron, Untreated, Non-sterilized)	(5) units	\$250.00
MB50-4W-001	MicroBubble Array™ 4-Well Chamber Slide (50-micron, Untreated, Non-sterilized)	(5) units	\$250.00
MB100-4W-001	MicroBubble Array™ 4-Well Chamber Slide (100-micron, Untreated, Non-sterilized)	(5) units	\$250.00
MB200-4W-001	MicroBubble Array™ 4-Well Chamber Slide (200-micron, Untreated, Non-sterilized)	(5) units	\$250.00
MB50-6P-001	MicroBubble Array™ 6-Well Plate (50-micron, Untreated, Non-sterilized)	(5) units	\$325.00
MB100-12P-001	MicroBubble Array™ 12-Well Plate (100-micron, Untreated, Non-sterilized)	(5) units	\$325.00
MB50-35D-001	MicroBubble Array™ 35 mm dish (50-micron, Untreated, Non-sterilized)	(5) units	\$210.00
MB50-60D-001	MicroBubble Array™ 60 mm dish (50-micron, Untreated, Non-sterilized)	(5) units	\$225.00

Disclaimer

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Applicable U.S. Patents #9,457,497 and #9,346,197