MB 1049HW
DEVELOPMENTAL TYPICAL PROPERTY SHEET

Lydall®

LydAir® MB
AIR FILTRATION MEDIA

Partners in Performance

Meltblown Filtration Media for Medical/Surgical Masks

LydAir® MB filtration media for medical and surgical facemasks uses a polypropylene construction to provide high filtration efficiency while minimizing airflow resistance. This media is engineered for consistent processing in stitched or ultrasonically sealed masks and serves as the filtration efficiency layer in a multi-layer mask design. This material is available in white and has been flat-sheet tested to meet an equivalent rating* of Bacterial Filtration Efficiency (BFE) 98 and 95 per ASTM F2101 and EN 14683 at a media face velocity of 12 cm/s.

MB 1049HW is available as a standalone meltblown layer, or as CL 1049HW which is a collated product with a single polypropylene spunbond layer.

LydAir media is also available in microglass and in synthetic/glass and poly/cellulose composites. Material construction can be customized to suit individual applications and media properties. Please contact Lydall for more information.

Applications

- Medical Facemasks, Type I, II, IIR (EN 14683)
- Medical Facemasks, Level 1, 2, 3 (ASTM F2100)

MB 1049HW (North America) & AXMB 1049HW (Europe)

Typical Properties	US Customary Units		SI Units		Reference Test Methods
Basis Weight	0.9	osy	30	g/m²	T.A.P.P.I - T - 410 A.S.T.M. - D -646
Penetration (0.3 µm NaCl @ 5.33 cm/s)	6	%	6	%	TSI 8130
Air Resistance (5.33 cm/s)	2.2	mm	22	Pa	TSI 8130
Bacterial Filtration Efficiency (BFE)* (@ 12.0 cm/s)	>98	%	>98	%	Lydall Proprietary*
Color	White				

Collated options also available with one single layer of polypropylene spunbond
- CL 1049HW (North America)
- AXCL 1049HW (Europe)

** Lydall has developed a proprietary, correlated, flat sheet test method for BFE. It is the filter manufacturer's responsibility to test the final article to the required full test methodologies for certification.*

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