



Lydall is your turn-key solutions provider for face mask expertise, materials and production support.

Expertise & Connections

Filtration Expertise

- 40+ years of expertise in the Filtration industry

Partnerships for Advanced Solutions

- We find solutions to bring face mask production to life in days, not months!

Industry Connections

- Intimate relationships with partners in equipment manufacturing for face mask production

Critical Filtration Layers

N95 Respirator Masks

- Meltblown media produced on state-of the art equipment

ASTM 1, 2, 3 Medical Masks

- BFE 95-99 Meltblown, Needlepunch and Carded Synthetic Materials

General Purpose Masks

- BFE ratings 75+ of needlepunch and carded materials with large production capacity to serve general face covering needs

Supporting Materials

Comfort Layers

- Nonwoven materials with soft surface for all-day comfort and excellent moisture management

Protective Layers

- Various nonwoven materials available for full range of mask designs

Tie Straps

- Synthetic and Cellulose materials ideal for comfortable ear straps/tie straps for medical masks



COVID-19 Face Masks Materials

Lydall offers a robust portfolio of nonwoven materials for customers who are producing face masks to fight the spread of COVID-19. Whether you require N95 media for respirator masks, BFE 98 media for medical masks, or media for a general purpose mask, we've got you covered when it comes to the filtration efficiency layer of the mask. We also offer media for other components of the face mask including the comfort and protective layers and the tie straps.

Filtration Efficiency Layer

High-quality materials available for various protection needs:

Best Protection For N95 Respirator Masks	Better Protection For Medical Masks	Good Protection For General Purpose Masks
		
<p>MB 7073</p> <ul style="list-style-type: none"> • NIOSH regulated • Removes 95% of 0.3 micron particles • Meltblown media 	<p>MB 1049HW, NP 0150PC</p> <ul style="list-style-type: none"> • Type I,II,III (EN 14683) & Level 1, 2, 3 (ASTM F2100) • BFE >98 – removes 98% of 3 micron particles • Meltblown media, Needlepunch media 	<p>IHB 0189IC, NP 0170EF</p> <ul style="list-style-type: none"> • BFE >75 – removes 75% of 3 micron particles • Carded media, Needlepunch media

Typical Properties	MB 7073	MB 1049HW	NP 0150PC	IHB 0189IC	NP 0200EF	Test Method
Basis Weight - osy (gsm)	0.9 osy (30 gsm)	0.9 osy (30 gsm)	4.4 osy (150 gsm)	1.8 osy (60 gsm)	5.9 osy (200 gsm)	T.A.P.P.I. - T - 410 A.S.T.M. - D - 646
Breathability - mmWc/cm2	3.25	1.75	0.5	0.5	1.5	EN 14683, Palas MFP 3000, 8 lpm
NIOSH Efficiency (42CFR, Part 84) (@10 cm/s)	95%	n/a	n/a	n/a	n/a	TSI 8130
Bacterial Filtration Efficiency (BFE)* (@12.0 cm/s)	> 99%	> 98%	> 95%	> 75%	> 75%	Lydall Proprietary*
Material	Polypropylene	Polypropylene	Polypropylene	Polyethylene/ Polypropylene	Polyester	
Color	White					

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

Additional Face Mask Materials

Comfort Layer

NP 0125EV Medical Felt

- Also referred to as the skin contact layer
- Polyester/Viscose blend needlepunch media
- Soft surface for all-day comfort
- Excellent moisture management
- 3.7 osy (125 gsm)

Tie Straps

Manniweb® 5190

- Viable substitute for elastics
- Soft polyester material provides more comfort and adjustable convenience for user
- 1.0 osy (30.5 gsm)

Protective Layers

NP 0095P Felt

- Polypropylene needlepunch media for ultrasonically sealed masks
- Viable substitute for spunbond polypropylene media
- 2.8 osy (95 gsm)

IHB 0949PL

- Polyethylene/Polypropylene carded thermal-bonded media
- 0.9 osy (32 gsm)

For more information on Lydall's BEST or BETTER protection, please contact:

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APAC:

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For more information on Lydall's GOOD protection or Additional Face Mask Materials, please contact:

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Note: All product data is nominal and does not represent a specification. All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. We make no warranty, expressed or implied, concerning actual use or results because of industry specific influences.

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