



# 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

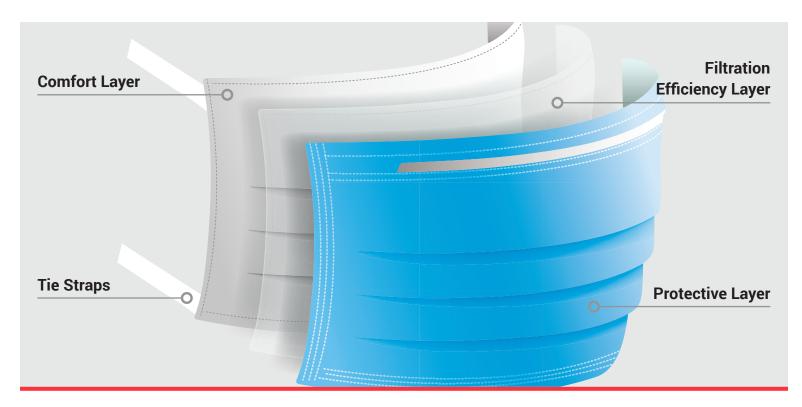
## **Protective Layers**

 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



### MB 7073

- NIOSH regulated
- Removes 95% of 0.3 micron particles
- · Meltblown media

## Better Protection For Medical Masks



### MB 1049HW, NP 0150PC

- Type I,II,IIR (EN 14683) & Level 1, 2, 3 (ASTM F2100)
- BFE >98 removes 98% of 3 micron particles
- · Meltblown media, Needlepunch media

## Good Protection For General Purpose Masks



### IHB 0189IC, NP 0170EF

- 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			

<sup>\*</sup> 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:

North America:

Aaron Frost at afrost@lydall.com

FMFA

Bruno Chenu at <a href="mailto:bchenu@lydall.com">bchenu@lydall.com</a>

APAC

Abhi Saxena at asaxena@lydall.com

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

North America:

Jean Girard at jgirard@lydall.com

EMEA:

Peter Keck at pkeck@lydall.com

APAC

Sara Lin at slin@lydall.com



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.