



# level 3 medical three layer masks

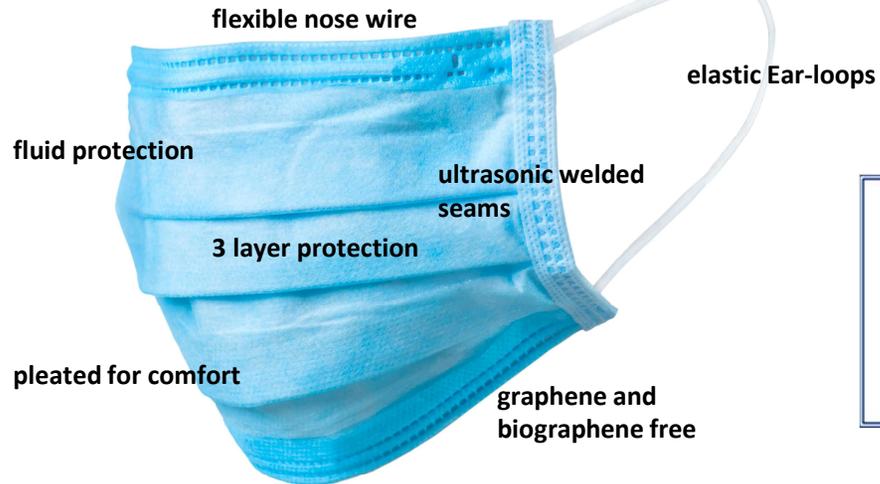
graphene and biomass graphene free

ASTM F2100 CERTIFIED

item# 1066



Test	Medical Mask ASTM F2100		
	Level 1	Level 2	Level 3
Bacterial Filtration Efficiency, %	≥95	≥98	≥98
Differential Pressure mm H <sub>2</sub> O/cm <sup>2</sup> (Pa/cm <sup>2</sup> )	<4.0 <39.2	<5.0 <49.0	<5.0 <49.0
Submicron particulate filtration efficiency at 0.1 micron, %	≥95	≥98	≥98
Splash Resistance/ Synthetic Blood Resistance, mmHg	80	120	160
Flame Spread	Class 1	Class 1	Class 1



Study Number 1373630-S01  
Viral Filtration Efficiency (VFE) Final Report

**MASK MATERIALS:**

- outer later 100% spunbond polyurethane
- inner later 100% meltblown
- inside later: 100% spunbond polyurethane
- nose wire: 100% aluminum
- earloops: 100% polyspandex
- latex-free
- hypoallergenic
- graphene and biographene free

**Results:**

Test Article Number	Percent VFE (%)
1	99.7
2	99.9
3	>99.9
4	>99.9
5	99.9

The filtration efficiency percentages were calculated using the following equation:

$$\% VFE = \frac{C - T}{C} \times 100$$

C = Positive control average

T = Plate count total recovered downstream of the test article

Note: The plate count total is available upon request

**Viral Efficiency Test 99% - NEW as of January 2021**