

ASTM F2100-11 (2011) REQUIREMENTS FOR MEDICAL FACE MASKS

TEST	LEVEL 1 (LOW) BARRIER: 80 mm Hg	LEVEL 2 (MODERATE) BARRIER: 120 mm Hg	LEVEL 3 (HIGH) BARRIER: 160 mm Hg
BFE (Bacterial Filtration Efficiency) at 3.0 micron ASTM F2101	≥ 95%	≥ 98%	≥ 98%
PFE (Particulate Filtration Efficiency) at 0.1 micron ASTM F2299	≥ 95%	≥ 98%	≥ 98%
Delta P (Differential Pressure) MIL-M-36954C, mm H ₂ O/cm ²	< 4.0	< 5.0	< 5.0
Fluid Resistance to Synthetic Blood ASTM 1862, mm Hg	80	120	160
Flame Spread 16 CFR part 1610	Class 1	Class 1	Class 1

ASTM PROTECTION VS. INTENDED USAGE

LEVEL 1 (LOW) BARRIER: 80 mm Hg	LEVEL 2 (MODERATE) BARRIER: 120 mm Hg	LEVEL 3 (HIGH) BARRIER: 160 mm Hg
Light / minimum BFE & PFE protection	High BFE & PFE protection	High BFE & PFE protection
Used for general procedures and respiratory etiquette	More breathable than high barrier mask	
Designed to resist a splash or spray at venous pressure	Designed to resist a splash or spray at arterial pressure	Highest fluid resistance – designed to resist a splash or spray during tasks like orthopedic surgery or trauma