



# MONOLITH

Triboelectric Filter Media



# HIGH EFFICIENCY LOW PRESSURE DROP HIGH LOADING CAPACITY

Monolith is an electrostatically charged filter media that is ideal for applications where pressure drop is the primary concern. It is different from other charged filter medias because it is very low in pressure drop, while maintaining high efficiency for small particles.

The triboelectric charge is created by placing two types of fibers with opposite dielectric properties in contact so that they exchange ions and create a charge imbalance between them. This ionic imbalance generates a strong electric field on the surface of the fibers, which is effective in attracting dust particles in the air.

## APPLICATION

- Face Masks
- Automotive Cabin Filter
- Room Air Cleaner Filter
- Vacuum Cleaner Filter
- Medical Device Filter
- HVAC Filter

## MEDIA SPECIFICATIONS

- Width:  $\leq 2\text{m}$  (can slit into narrower width)
- Media Weight:  $30\text{g}/\text{m}^2 \sim 300\text{g}/\text{m}^2$
- Can be laminated with different backing material
- Can be laminated with carbon media



## PERFORMANCE DATA

Basis Weight (g/m <sup>2</sup> )	Filtration Efficiency (0.3µm @32 LPM, %)	Pressure Drop (@32 LPM, mmAq / in-WG)	Media Thickness (mm / in)
30	67	0.15 / 0.006	1.4 / 0.055
40	75	0.18 / 0.007	1.5 / 0.059
50	81	0.22 / 0.009	1.6 / 0.063
60	86	0.25 / 0.010	1.7 / 0.067
70	90	0.29 / 0.011	1.9 / 0.075
80	92	0.34 / 0.013	2.0 / 0.079
90	95	0.40 / 0.016	2.1 / 0.083
100	97	0.50 / 0.020	2.2 / 0.087
150	99.50	0.80 / 0.031	2.6 / 0.102
200	99.70	1.10 / 0.043	3.0 / 0.118
250	99.95	1.60 / 0.063	3.4 / 0.134
300	99.98	2.10 / 0.083	3.6 / 0.142





[www.KJFILTRATION.com](http://www.KJFILTRATION.com)



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