

Black Melt-Blown Nonwoven Fabric for Filtration

This black melt-blown nonwoven fabric is designed for high-efficiency particulate air (HEPA) filters. It features a flow rate of 84.9L, PFE of over 98%, and BFE of 100%.



Product Overview

High-Performance Filtration Fabric

This black melt-blown nonwoven fabric is engineered for superior filtration performance, utilizing polypropylene fibers with diameters ranging from 1 to 5 microns. Its unique capillary structure and fluffy, void-rich design provide exceptional filterability, shielding, and oil absorption capabilities. Designed for versatility, this material is ideal for air and liquid filtration, thermal insulation, and protective mask applications.

Material Composition

Primary Material	Polypropylene
Fiber Diameter	1 - 5 microns
Key Characteristics	High filtration efficiency, Oil absorbent, Thermal insulation, Wrinkle resistant, Fluffy structure

Performance Metrics

Filtration Efficiency Test Results

Particle Size	Efficiency
0.3 µm (PFE)	98.0838%
0.5 µm	98.8691%
1.0 µm	99.7903%
2.5 µm (BFE Reference)	100.0000%
5.0 µm	100.0000%
10.0 µm	100.0000%

Airflow and Resistance

84.9 L

Airflow

73.7 Pa

Resistance

Applications

Recommended Applications

- Air filtration systems
- Liquid filtration
- Mask manufacturing
- Thermal insulation
- Oil absorption
- Wiping cloths
- Isolation materials