

Technical Data Sheet

Material Designation

Grade E

Material Properties
Summary

☒ *Binderless*

☐ *Organic Binder*

☐ *Double Laminated*

☐ *Acrylic Binder*

☐ *Laminated*

☐ *Hydrophobic*

This binderless glass micro fiber material demonstrates excellent fine particle retention. High particle retention efficiency for filtration of large volumes. Ideally suited for suspended solids analysis and high volume air monitoring applications. Softening point of glass fiber is 500°C, therefore upper limit temperature in use is 475°C. Low fiber shedding improves quality assurance of test results. High loading capacity.

This media meets requirements for standard method 2540D and EPA Method 160.2 for establishing water quality in suspended solids content. Total Suspended Solids (TSS) are defined as those which are retained by a binderless glass micro fiber filter.

Widely used in air pollution monitoring. Also used in Cell harvesting and Liquid scintillation counting.

Micron rating

1.5

μm

Basis Weight

39

lbs/3,000 ft²

TAPPI Method T410

Caliper Thickness

0.017

inches - 4 psi

TAPPI Method T411

Mean Pore Size

-

μm

DOP Smoke Penetration

.02

*% at 0.3 μm @
10.5 ft/minute*

ASTM Method D-2986

Air Flow Resistance

-

*mm H₂O @
10.5 ft/minute*

ASTM Method D-2986

Tensile Strength MD

-

lbs / inches

TAPPI Method T494

Tensile Strength CD

-

lbs / inches

TAPPI Method T494

Dry Elongation MD

-

%

TAPPI Method T494

Dry Elongation CD

-

%

TAPPI Method T494

Frazier Permeability

-

*ft³ / min / ft² @
0.5in H₂O W.G.*

ASTM Method F778-82

Gurley Stiffness

-

mg

TAPPI Method T543

Water Repellency

-

Inches H₂O

Ignition Loss

Binderless

% Loss

Comments:

*Initial Filtration Speed (secs/100ml) = 49
Wet Burst (kPa) = 3.6
Wet Burst (psi) = 0.57
Color white, surface smooth.*

Actual filtration performance, i.e. efficiency and dust holding capacity, will vary depending upon filter design parameters and the normal variation of the media properties consistent with the specification range. We continuously strive to define our products and hence the specifications are subject to change.