

Technical Data Sheet

Material Designation

Grade B

Material Properties
Summary

☒ *Binderless*

☐ *Organic Binder*

☐ *Double Laminated*

☐ *Acrylic Binder*

☐ *Laminated*

☐ *Hydrophobic*

This pure borosilicate glass micro fiber material is manufactured without the use of binders prior to or pulping or after wet-lay process. The media demonstrates excellent fine particle retention. High particle retention efficiency for filtration of medium volumes. 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. Fiber length easily allows for controlled fusing in well regulated heat treating processes to increase tensile strength as well as burn off organic extractables.

Material is commonly used as a prefilter in membrane filtration. High surface area aids in high levels of protein binding. It is reported that this material does not damage cellular structures which release easily with rinsing. Material is 3 times as thick as Grade A and twice as thick as Grade C with identical glass chemistry. Material is autoclavable on fine mesh support.

Micron rating

1.0 - 1.1

μm

Basis Weight

87.9

lbs/3,000 ft²

TAPPI Method T410

Caliper Thickness

0.026

inches - 4 psi

TAPPI Method T411

Mean Pore Size

1.85

μm

DOP Smoke Penetration

.009

*% 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

11

lbs / inches

TAPPI Method T494

Tensile Strength CD

7

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) = 52
Wet Burst (kPa) = 5.2
Wet Burst (psi) = 1.12
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.