

Technical Data Sheet

Material Designation

LB5211 A-O

Material Properties
Summary

Binderless

Organic Binder

Double Laminated

Acrylic Binder

Laminated

Hydrophobic

This laminated glass product is a high efficiency multi-purpose filter medium with good heat resistance. It is particularly recommended for both gas and liquid filtration in the medical field and for monitoring applications.

The base material consists of glass microfibers with 3-7% acrylic resin binder. The supporting scrim is a 0.5 oz/yd² Reemay, a high strength spun bonded polyester nonwoven. The scrim can be applied to either side depending on the filter design.

The scrim is bonded to the glass media using a polyester hot melt which has a melting point of 325 degrees F.

Micron rating

1-2

μm

Basis Weight

51 - 54

lbs/3,000 ft²
TAPPI Method T410

Caliper Thickness

0.013 - 0.015

inches - 4 psi
TAPPI Method T411

Mean Pore Size

3.3

μm

DOP Smoke Penetration

0.015

% at 0.3 μm @
10.5 ft/minute

ASTM Method D-2986

Air Flow Resistance

36 - 38

mm H₂O @
10.5 ft/minute

ASTM Method D-2986

Tensile Strength MD

6.0

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

-

% Loss

Comments:

Widely used in monitoring air in and around nuclear sites. When stored in nominal climate controlled warehousing conditions, this material has an indefinite shelf life.

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 refine our products and hence the specifications are subject to change.