

Technical Data Sheet

Material Designation

LC-42

Material Properties
Summary

☐ Binderless

☒ Acrylic Binder

☐ Organic Binder

☒ Laminated

☐ Double Laminated

☐ Hydrophobic

This laminated glass product is a high efficiency multi-purpose filter medium with good heat resistance. The basis weight and thickness are higher than normal to provide greater filter capacity. This grade is recommended for applications where some depth penetration and lower plugging rates are favored over surface removal of particulates.

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.

Micron rating

1-2

μm

Basis Weight

140

lbs/3,000 ft²
TAPPI Method T410

Caliper Thickness

0.048

inches - 4 psi
TAPPI Method T411

Mean Pore Size

4.3

μm

DOP Smoke Penetration

0.010

*% at 0.3 μm @
10.5 ft/minute*

ASTM Method D-2986

Air Flow Resistance

37

*mm H₂O @
10.5 ft/minute*
ASTM Method D-2986

Tensile Strength MD

8.0

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:

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.