

Technical Data Sheet

Material Designation

IWT-88054

Material Properties
Summary

Binderless

Organic Binder

Double Laminated

Acrylic Binder

Laminated

Hydrophobic

This mixed length glass filter material is suitable for use as a prefilter for high efficiency air filtration. Liquid filtration properties demonstrate high loading capacity with a 5 micron rating achieved by entrapment within the complex pore structure in the media depth caused by the varying diameter and fiber lengths. This media contains proprietary blends of glass fibers (diameters, lengths, surface elements & formulation) as well as acrylic binder.

Material has found applications in IVD as a blood and vital fluid wicking media, field and lab level analytical pre filtration of coarse precipitates in liquids. Also, material is ideal for grade process level liquid filtration via pleated cartridge and filter press applications.

A silicon additive is optional for hydrophobic applications in custom blend runs.

Micron rating

5.0

μm

Basis Weight

88

lbs/3,000 ft²

TAPPI Method T410

Caliper Thickness

0.054

inches - 4 psi

TAPPI Method T411

Mean Pore Size

7

μm

DOP Smoke Penetration

n/a

*% at 0.3 μm @
10.5 ft/minute*

ASTM Method D-2986

Air Flow Resistance

217

mm H₂O @

10.5 ft/minute

ASTM Method D-2986

Tensile Strength MD

15.0

lbs / inches

TAPPI Method T494

Tensile Strength CD

10.0

lbs / inches

TAPPI Method T494

Dry Elongation MD

n/a

%

TAPPI Method T494

Dry Elongation CD

n/a

%

TAPPI Method T494

Frazier Permeability

n/a

ft³ / min / ft² @

0.5in H₂O W.G.

ASTM Method F778-82

Gurley Stiffness

2600

mg

TAPPI Method T543

Water Repellency

optional

Inches H₂O

Ignition Loss

3.5

% Loss

Comments:

As with all fiber glass containing long or varied fiber lengths, skin irritation may occur during prolonged contact.

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.