

# I.W. Tremont Co., Inc.

Filter & Technical Specialty Papers

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## Technical Data Sheet

Material Designation

LL-13

Material Properties  
Summary

Binderless

Organic Binder

Double Laminated

Acrylic Binder

Laminated

Hydrophobic

This is an ultra high efficiency filter medium produced from extremely fine borosilicate glass microfibers with an acrylic resin binder. This grade can be utilized as an ultrafine liquid filter by itself, or as a prefilter for increasing life in a membrane system. It is suggested for use in analytical or process biochemistry.

The base material consists of glass microfibers with 3-7% acrylic resin binder. The supporting scrims are a 0.5 oz/yd<sup>2</sup> Reemay, a high strength spun bonded polyester nonwoven.

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

### Micron rating

10-12

$\mu\text{m}$

### Basis Weight

84

lbs/3,000 ft<sup>2</sup>  
TAPPI Method T410

### Caliper Thickness

0.022

inches - 4 psi  
TAPPI Method T411

### Mean Pore Size

12.8

$\mu\text{m}$

### DOP Smoke Penetration

32.5

% at 0.3  $\mu\text{m}$  @  
10.5 ft/minute

ASTM Method D-2986

### Air Flow Resistance

5.0

mm H<sub>2</sub>O @  
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

22

ft<sup>3</sup> / min / ft<sup>2</sup> @  
0.5in H<sub>2</sub>O W.G.

ASTM Method F778-82

### Gurley Stiffness

-

mg

TAPPI Method T543

### Water Repellency

-

Inches H<sub>2</sub>O

### 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.