

### Technical Data Sheet

Material Designation

RG

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/yd<sup>2</sup> 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

$\mu\text{m}$

#### Basis Weight

54

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

#### Caliper Thickness

0.015

*inches - 4 psi*  
TAPPI Method T411

#### Mean Pore Size

3.3

$\mu\text{m}$

#### DOP Smoke Penetration

0.015

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

ASTM Method D-2986

#### Air Flow Resistance

36

*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

-

*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: *Widely used in monitoring air in and around nuclear sites.*

*Suitable as a bioreactor cell attachment scaffold media.*

*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.*