

Glass Fiber Nonwovens

Features/Advantages

- Inorganic coating engineered to withstand direct flame impingement for short periods of time.
- Made from non-respirable, electrical grade glass fibers.
- Withstand humidity and continuous operating temperature up to 1200°F without shrinkage
- Achieves UL's highest rating (94V-0) for non-flammability
- Highly uniform surface and excellent thickness control make this product perfect for applying coatings, PSA's and laminating foil
- Engineered with binders that are not formaldehyde-based to satisfy low smoke & odor requirements.
- Dimensionally stable and easy to die cut into intricate shapes with narrow spans.
- Flexible enough to conform to a 90° bend. Easily compressed to form a seal while maintaining enough rigidity to be self supporting.

Typical Markets

- Furnaces
- Water Heaters
- Automotive (underhood)
- Steam Trace Lines
- Stoves
- Hearth Products
- Lighting
- Boilers

Typical Applications

- Thermal/flame barrier for gas fired appliances
- Passive flame barrier system
- High temperature gaskets and seals
- Coated with PSA and slit into strips to be used as seals and thermal breaks.
- Thermal insulation where space is at a premium
- Laminated or mechanically attached to other substrates to create unique thermal solutions

ManniGlas® 1908 is a composite of glass fiber base with a flame resistant inorganic coating. This thermal-barrier coating impedes the penetration of heat and flame to protect combustible materials. Substrate thickness and level of inorganic treatment can be custom engineered to achieve specific requirements.

Material Properties	English	Standard Thickness		
	Units			
Thickness	in	.035	.130	.255
Measurement Gauge	psi	7.3	0.5	0.5
Density (post compression)	pcf	12.4	8.0	7.5
Basis Weight	lb/ream*	104	250	460
Tensile Strength				
Machine Direction	lb/in	16	26	40
Cross Direction	lb/in	14	24	45
Ash	% by wt	94	94	94

* ream = 2880 ft² = 320 yd²

Material Properties	Metric	Standard Thickness		
	Units			
Thickness	mm	.89	3.18	6.48
Measurement Gauge	kPa	50	3.4	3.4
Density (post compression)	g/cc	.20	.13	.12
Basis Weight	g/m ²	176	424	780
Tensile Strength				
Machine Direction	kg/25mm	7	12	18
Cross Direction	kg/25mm	6	11	20
Ash	% by wt	94	94	94

Thermal Conductivity	English		Metric	
	(°F)	(BTU•in/hr•ft ² •°F)	(°C)	(W/m•K)
	500	.44	260	.063
	600	.51	316	.074

General Information

- 49" standard roll width
- 2" to 49" custom roll width available upon request
- 3" ID standard core
- 38" to 40" standard OD
- All rolls are stretch-wrapped for protection
- Palletizing is available upon request

Testing/Engineering Services

- Thermal Imaging For Performance Validation
- Thermal Conductivity For Material Characterization
- Thermal Modeling For Engineering Solutions