ManniGlas® 1902

A Lydall Engineered Product

ISO-9001

Glass Fiber Nonwovens

Features/Advantages

- Black in color to blend into dark backgrounds.
- Made from non-respirable, electrical grade glass fibers.
- Withstands 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

- Dark background applications
- High temperature gaskets and seals
- Laminated to foil to create a thermal shield
- 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® 1902 is a non-respirable, low cost alternative to silicone and ceramic fiber gasketing materials. Glass fibers are engineered to have a black appearance to blend in with dark background applications while still providing superior thermal resistance in a limited space.

Material Properties

	English Units	Standard Thickness	
Thickness	in	0.125	0.250
Measurement Gauge	psi	0.5	0.5
Density (post compression)	pcf	7.25	7.25
Basis Weight	lb/ream*	232	464
Tensile Strength			
Machine Direction	lb/in	40	60
Cross Direction	lb/in	40	60
Ash	% by wt	94	94

* ream = 2880 ft² = 320 yd²

Material Properties

	Metric Units	Standard Thickness	
Thickness	mm	3.18	6.35
Measurement Gauge	kPa	3.4	3.4
Density (post compression)	g/cc	.12	.12
Basis Weight	g/m²	393	786
Tensile Strength			
Machine Direction	kg/25mm	18	27
Cross Direction	kg/25mm	18	27
Ash	% by wt	94	94

Thermal Conductivity

English		Metric	
(°F)	(BTU•in/hr•ft²•°F)	(°C)	(W/m•K)
75	.209	24	.030
250	.288	121	.041
500	.436	260	.063
649	.558	342	.081

General Information

- 51" standard roll width
- 2" to 104" 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

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