ManniGlas® 1900

A Lydall Engineered Product

ISO-9001

Glass Fiber Nonwovens

Features/Advantages

- 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 white 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.
- Low chloride level and high inorganic content

Typical Markets

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

Typical 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® 1900 is a non-respirable, low cost alternative to silicone and ceramic fiber gasketing materials. It also excels in applications requiring superior thermal resistance where space is limited.

Material Properties

	English Units	Standard Thickness			
Thickness	in	.030	.060	.125	.250
Measurement Gauge	psi	7.3	7.3	0.5	0.5
Density (post compression)	pcf	11	11	7	7
Basis Weight	lb/ream*	79	162	213	441
Tensile Strength					
Machine Direction	lb/in	14	30	40	80
Cross Direction	lb/in	11	30	30	70
Ash	% by wt	94	94	94	94

* ream = 2880 ft² = 320 yd²

Material Properties

	Metric Units	Standard Thickness			
Thickness	mm	0.76	1.52	3.18	6.36
Measurement Gauge	kPa	50	50	3.4	3.4
Density (post compression)	g/cc	.18	.18	.12	.12
Basis Weight	g/m²	137	275	383	760
Tensile Strength					
Machine Direction	kg/25mm	6	13	18	36
Cross Direction	kg/25mm	5	13	13	31
Ash	% by wt	94	94	94	94

Thermal Conductivity

English		Metric	
(°F)	(BTU•in/hr•ft²•°F)	(°C)	(W/m•K)
75	.205	24	.029
250	.269	121	.038
500	.400	260	.057
750	.635	400	.091

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

Lydall™

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