



Non-Respirable, Glass Fiber Paper

ManniGlas® 1900

Outstanding Thermal Insulation

ManniGlas® 1900 is a non-respirable, low cost alternative to silicone and ceramic fiber gasketing materials. It excels in applications requiring superior thermal resistance where space is limited. The distinct advantages of these electrical grade glass fibers include:

- Ability to withstand continuous operating temperatures up to 1200°F (649°C) without shrinkage
- Achievement of UL's highest rating (94V-0) for non-flammability
- Highly uniform white surface and excellent thickness control
- Non-formaldehyde-based binders to satisfy low smoke and odor requirements
- Dimensional stability
- Easy die-cutting that allows for intricate shapes with narrow spans
- Flexibility for conforming to 90° bend
- Compression resistant
- ISO-9001:2008 certified
- Available in black or white

To meet thermal conductivity needs in any space, trust ManniGlas® 1900.

Material Property	Standard Thickness, in (mm)			
	0.030 (0.76)	0.060 (1.52)	0.125 (3.18)	0.250 (6.36)
Measurement Gauge, psi (kPa)	7.3 (50)	7.3 (50)	0.5 (3.4)	0.5 (3.4)
Density - Post compression, pcf (g/cc)	11 (0.18)	11 (0.18)	7 (0.12)	7 (0.12)
Basis Weight, lb/2880ft ² (g/m ²)	79 (137)	165 (275)	219 (383)	451 (760)
Ash, % by wt	94	94	94	94
Machine Direction Tensile Strength, lb/in (kg/25 mm)	14 (6)	30 (13)	40 (18)	80 (36)
Cross Direction Tensile Strength, lb/in (kg/25 mm)	11 (5)	30 (13)	30 (13)	70 (31)

Mean Temperature, °F (°C)	Thermal Conductivity,* BTU-in/hr-ft ² -°F (W/m °C)
167 (75)	0.26 (0.037)
350 (177)	0.34 (0.049)
500 (260)	0.43 (0.061)
650 (343)	0.51 (0.073)

*Per ASTM C177

Product Availability	
Standard Roll Width, in (mm)	51 (1295.4)
Custom Roll Width, in (mm)	2 (50.8)–104 (2641.6)
Roll Diameter — ID, in (mm)	3 (76.2)
Roll Diameter — OD, in (mm)	38 (965.2)–40 (1016)
Color	Black, White
Slitting	Custom
Palletizing	Available upon request
Packaging	Stretched-wrapped

Note: All product data is nominal and does not represent a specification.

All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. We make no warranty, expressed or implied, concerning actual use or results because of industry specific influences.

Lydall Performance Materials

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<http://www.lydallthermal.com>

Typical Markets

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

Typical Applications

- Provide thermal insulation where space is at a premium
- High temperature gaskets and seals
- Laminated to foil for use as a thermal shield
- PSA-coated and slit into strips to act as seals and protect thermal breaks
- Laminated/Mechanically attached to other substrates to create unique thermal solutions

Testing/Engineering Services

- Thermal imaging for performance validation
- Thermal conductivity for material characterization
- Thermal modeling for engineering solutions