



## Premium Grade Non-Respirable Glass Fiber Paper

# ManniGlas® 1200

### Outstanding Thermal Insulation

ManniGlas® 1200 is our premium grade, 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. The unique advantages of these electrical grade glass fibers include:

- Ability to withstand humidity and 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
- Enhanced compression capability with maintained rigidity for self-supporting
- ISO-9001:2008 certified

**To meet thermal conductivity needs in critical thermal barrier applications, trust ManniGlas® 1200.**

Material Property	Standard Thickness, in (mm)			
	0.015 (0.38)	0.030 (0.76)	0.060 (1.52)	0.125 (3.18)
Measurement Gauge, psi (kPa)	7.3 (50)	7.3 (50)	7.3 (50)	0.5 (3.4)
Density - Post compression, pcf (g/cc)	12 (0.19)	11.5 (0.18)	11.5 (0.18)	8.7 (0.14)
Basis Weight, lb/2880ft <sup>2</sup> (g/m <sup>2</sup> )	43 (73)	83 (141)	165 (280)	251 (441)
Ash, % by wt	94	94	94	94
Machine Direction Tensile Strength, lb/in (kg/25 mm)	12 (6)	21 (9)	44 (20)	45 (20)
Cross Direction Tensile Strength, lb/in (kg/25 mm)	11 (5)	20 (9)	47 (21)	50 (23)

Mean Temperature, °F (°C)	Thermal Conductivity, BTU-in/hr/ft <sup>2</sup> /°F (W/m °C)
75 (24)	0.22 (0.031)
140 (60)	0.28 (0.039)
167 (75)	0.31 (0.044)
500 (260)	0.35 (0.051)
650 (345)	0.42 (0.060)

\* Per ASTM C177 @ 0.125" thickness

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)
Slitting	Custom
Palletizing	Available upon request
Packaging	Stretched-wrapped

## 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

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 influenced.

### Lydall Performance Materials

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