



Low Cost, Non-Respirable Glass Fiber Paper

ManniGlas® 2000

Outstanding Thermal Insulation

ManniGlas® 2000 is a non-respirable, non-woven fiber that offers thermal performance similar to woven glass at a fraction of the cost. Whether used alone or laminated to foil, this electrical grade fiber offers enhanced thermal performance along with:

- Ability to withstand humidity and continuous operating temperatures up to 1200°F (649°C) without shrinkage or loss of shape
- Achievement of UL's highest rating (94V-0) for non-flammability
- Low density that reduces the cost per unit area
- Dimensional stability
- Easy die-cutting that allows for intricate shapes with narrow spans
- ISO-9001:2008 certified

To meet the thermal conductivity needs in any space, trust ManniGlas® 2000.

Material Property	Standard Thickness, in (mm)		
	0.060 (1.52)	0.125 (3.18)	0.250 (6.35)
Basis Weight, lb/2880ft ² (g/m ²)	159 (270)	213 (361)	390 (660)
Measurement Gauge, psi (kPa)	7.3 (50)	0.5 (3.4)	0.5 (3.4)
Density - Post compression, pcf (g/cc)	11 (0.18)	7.1 (0.11)	6.5 (0.10)
Ash, % by wt	94	94	94
Machine Direction Tensile Strength, lb/in (kg/25 mm)	25 (11)	33 (15)	83 (37)
Cross Direction Tensile Strength, lb/in (kg/25 mm)	22 (10)	34 (15)	71 (32)

Typical Applications

- Laminated to foil for use as a thermal barrier for light fixtures
- Thermal shield in the automotive industry after laminating
- Provides aircraft noise reduction and thermal protection
- Outlet pipe insulation in stoves

Testing/Engineering Services

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

Mean Temperature, °F (°C)	Thermal Conductivity, BTU·in/hr·ft ² ·°F (W/m °C)
75 (24)	0.22 (0.032)
167 (75)	0.25 (0.035)
350 (177)	0.38 (0.055)
500 (260)	0.51 (0.073)
650 (343)	0.66 (0.096)

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	Individually wrapped in polyurethane

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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