

## TECHNICAL DATASHEET: ManniGlas® 1902 Glass Fiber Paper

**PRODUCT DESCRIPTION**

ManniGlas® 1902 is a non-respirable glass fiber paper that offers outstanding thermal performance in a range of thermal gasket applications.

**TYPICAL APPLICATIONS**

- Laminated for foil for use as a thermal shield
- Provides thermal insulation where space is at a premium
- High temperature gaskets and seals
- Laminated/Mechanically attached to other substrates to create unique thermal solutions
- Typical markets: automotive, boilers & furnaces, hearth products, lighting, steam trace lines, stoves and water heaters

**PRODUCT FEATURES & BENEFITS**

- Ability to withstand continuous operating temperatures up to 1100°F, excursion 1200°F
- Meets UL 94V-0 for non-flammability, excluding certain specialty grades
- Highly uniform surface and excellent thickness control
- Non formaldehyde-based binders
- Outstanding dimensional stability
- Excellent die-cutting properties for intricate shapes
- Flexibility and strength
- Excellent compression resistance
- Low LOI to satisfy low smoke & odor requirements
- ISO-9001:2008 certified
- ROHS Compliant
- REACH Compliant\*

TECHNICAL DATA	VALUE	TEST METHOD / STANDARD
<b>THICKNESS</b>	1/32", 1/16", 1/8", 1/4"	
<b>COLOR</b>	Black	
<b>MATERIAL/SUBSTRATE</b>	Glass Fiber Paper	
<b>THICKNESS MEASUREMENT GAUGE</b>	1/32"      7.3 psi 1/16"      7.3 psi 1/8"        0.5 psi 1/4"        0.5 psi	
<b>DENSITY – POST COMPRESSION</b>	1/32"      11.5 lb/ft <sup>3</sup> 1/16"      11.5 lb/ft <sup>3</sup> 1/8"        7 lb/ft <sup>3</sup> 1/4"        7 lb/ft <sup>3</sup>	
<b>BASIS WEIGHT</b>	1/32"      79 lb/2880 ft <sup>2</sup> 1/16"      165 lb/2880 ft <sup>2</sup> 1/8"        219 lb/2880 ft <sup>2</sup> 1/4"        451 lb/2880 ft <sup>2</sup>	
<b>LOI</b>	6% by wt	
<b>MACHINE DIRECTION TENSILE STRENGTH</b>	1/32"      17 lb/in 1/16"      30 lb/in 1/8"        40 lb/in 1/4"        80 lb/in	

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. **REV. 0**

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 ManniGlas® 1902 Glass Fiber Paper**

TECHNICAL DATA	VALUE	TEST METHOD / STANDARD
<b>CROSS DIRECTIONAL TENSILE STRENGTH</b>	1/32"      15 lb/in	
	1/16"      30 lb/in	
	1/8"        30 lb/in	
	1/4"        70 lb/in	
<b>THERMAL CONDUCTIVITY, MEAN TEMPERATURE 75°F**</b>	0.23 BTU in/hr ft <sup>2</sup> F	ASTM C177
<b>THERMAL CONDUCTIVITY, MEAN TEMPERATURE 300°F**</b>	0.32 BTU in/hr ft <sup>2</sup> F	ASTM C177
<b>THERMAL CONDUCTIVITY, MEAN TEMPERATURE 600°F**</b>	0.48 BTU in/hr ft <sup>2</sup> F	ASTM C177
<b>THERMAL CONDUCTIVITY, MEAN TEMPERATURE 900°F**</b>	0.74 BTU in/hr ft <sup>2</sup> F	ASTM C177
<b>THERMAL CONDUCTIVITY, MEAN TEMPERATURE 1100°F**</b>	0.98 BTU in/hr ft <sup>2</sup> F	ASTM C177
<b>UL 94V-0</b>	Pass	
<b>ROHS</b>	Pass	
<b>REACH*</b>	Pass	

**NOTES:** \* this product is an article and not subject to registration  
 \*\* Per ASTM C177 @ 0.125" thickness