

TECHNICAL DATASHEET: ManniGlas® 1900 Glass Fiber Paper

PRODUCT DESCRIPTION

ManniGlas® 1900 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 |
|---|---|------------------------|
| THICKNESS | 1/32", 1/16", 1/8", 1/4" | |
| COLOR | White | |
| MATERIAL/SUBSTRATE | Glass Fiber Paper | |
| THICKNESS MEASUREMENT GAUGE | 1/32" 7.3 psi 1/16" 7.3 psi 1/8" 0.5 psi 1/4" 0.5 psi | |
| DENSITY – POST COMPRESSION | 1/32" 11.5 lb/ft ³ 1/16" 11.5 lb/ft ³ 1/8" 7 lb/ft ³ 1/4" 7 lb/ft ³ | |
| BASIS WEIGHT | 1/32" 79 lb/2880 ft ² 1/16" 165 lb/2880 ft ² 1/8" 219 lb/2880 ft ² 1/4" 451 lb/2880 ft ² | |
| LOI | 6% by wt | |
| MACHINE DIRECTION TENSILE STRENGTH | 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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| TECHNICAL DATA | VALUE | TEST METHOD / STANDARD |
|--|-----------------------------------|------------------------|
| CROSS DIRECTIONAL TENSILE STRENGTH | 1/32" 15 lb/in | |
| | 1/16" 30 lb/in | |
| | 1/8" 30 lb/in | |
| | 1/4" 70 lb/in | |
| THERMAL CONDUCTIVITY, MEAN TEMPERATURE 75°F** | 0.23 BTU in/hr ft ² °F | ASTM C177 |
| THERMAL CONDUCTIVITY, MEAN TEMPERATURE 300°F** | 0.32 BTU in/hr ft ² °F | ASTM C177 |
| THERMAL CONDUCTIVITY, MEAN TEMPERATURE 600°F** | 0.48 BTU in/hr ft ² °F | ASTM C177 |
| THERMAL CONDUCTIVITY, MEAN TEMPERATURE 900°F** | 0.74 BTU in/hr ft ² °F | ASTM C177 |
| THERMAL CONDUCTIVITY, MEAN TEMPERATURE 1100°F** | 0.98 BTU in/hr ft ² °F | ASTM C177 |
| UL 94V-0 | Pass | |
| ROHS | Pass | |
| REACH* | Pass | |

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