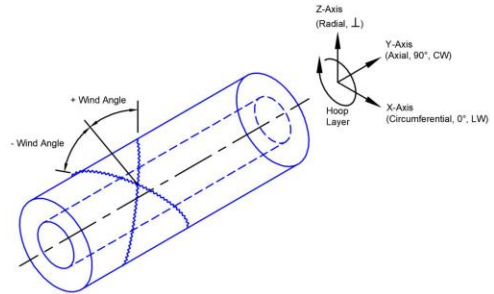


FW100W

TECHNICAL DATA BULLETIN

DESCRIPTION: FW100W is a filament wound tube with an epoxy resin system on a glass filament. FW100W is designed as an economical general-purpose mechanical grade with low moisture absorption. Helical wind angles of 15° - 75° are possible and circumferential (hoop) layers can be placed at various points in the tube's construction. FW100W is white in color.



TUBE TESTED: ID = 0.750", OD = 1.000"

TYPICAL PROPERTIES

| PHYSICAL PROPERTIES | TEST METHOD | CONDITIONING | UNITS | VALUE | | |
|----------------------|-------------|-----------------------|---------|---------------------------|---------------|--|
| | | | | Specimen Tested (ID x OD) | | |
| | | | | | 0.75" x 1.00" | |
| Specific Gravity | ASTM D792 | Condition A | - | | 2.0 | |
| Rockwell Hardness | ASTM D785 | Condition A | M Scale | | 110 | |
| Moisture Absorption | ASTM D570 | D ₁ -24/23 | % | | 0.02 | |
| Tensile Strength | ASTM D638 | Condition A | psi | | 10,500 | |
| Compressive Strength | ASTM D695 | Condition A | psi | | 28,500 | |
| Compressive Modulus | ASTM D695 | Condition A | kpsi | | 560 | |



Global Thermoset Composite Solutions

FW100W – TYPICAL PROPERTIES (continued)

| THERMAL PROPERTIES | TEST METHOD | CONDITIONING | UNITS | VALUE | | |
|------------------------------|----------------|--------------|-----------|---------------------------|---------------|--|
| | | | | Specimen Tested (ID x OD) | | |
| | | | | | 0.75" x 1.00" | |
| T _g by DMA | ASTM E1640 | Condition A | °C | | 165 | |
| Flammability Rating | UL Bulletin 94 | Condition A | Class | | HB | |
| ELECTRICAL PROPERTIES | | | | | | |
| Breakdown Voltage | ASTM D149 | Condition A | kVolts | | 85 | |
| | | D-48/50 | kVolts | | 95 | |
| Electric Strength | ASTM D149 | Condition A | Volts/mil | | 320 | |
| | | D-48/50 | Volts/mil | | 350 | |

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

To assure the material's performance is adequate for a specific application; customers should verify, independent of Norplex-Micarta, performance characteristics of interest.

It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service or, preferably our web site, www.norplex-micarta.com, to determine if information is most current available.

Specification writers: Contact Norplex-Micarta for specification values before submission.