



*Composites For Today's Challenges*

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## GPO-3 Grade UTR Composite Tubing Technical Data

Grade UTR is a U.L.®recognized fiberglass reinforced thermoset polyester tube that meets the requirements of NEMA GPO-3. It has exceptional arc track resistance and dimensional stability in high humidity environments.

### Physical Properties

|                             | <u>Test Procedure</u> | <u>Typical Values</u>  |
|-----------------------------|-----------------------|------------------------|
| Specific Gravity            | ASTM D638-97          | 1.91                   |
| Tensile Modulus             | ASTM D638-97          | $30.7 \times 10^3$ psi |
| Flexural Strength (tube)    | ASTM D790-97A         | $2.28 \times 10^6$ psi |
| Flexural Modulus (tube)     | ASTM D790-97A         | 134 lbs.               |
| Compressive Strength (tube) | ASTM D2412-96A        | 4180 lbs./inch         |
| Compressive Modulus (tube)  | ASTM D2412-96A        | 126 lbs.               |
| Burst Strength              | ASTM D1180-57         | 3930 lbs./In./In.      |
| Moisture Absorption         | ASTM D570             | 0.5% by wgt.           |

All mechanical tests were performed on .750" OD tube w/.050" wall thickness

### Electrical Properties

|                                 |            |          |
|---------------------------------|------------|----------|
| Arc Resistance                  | ASTM D495  | 150 Sec. |
| Inclined Plane Track Resistance | ASTM D2303 | 300 Min. |

### Thermal & Flammability Properties

|                              |       |        |
|------------------------------|-------|--------|
| U.L.® 94 Flammability Rating |       | 94V-O  |
| U.L. Temperature Index       |       |        |
| Electrical                   | UL76B | 130° C |
| Mechanical                   | UL76B | 160° C |

All information and suggestions pertaining to the properties and uses of the materials described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material for such use is the sole responsibility of the user. No warranty is expressed or implied, including, without limitation, warrant of merchantability or fitness for a particular purpose. Under no circumstances shall Lamitex, LLC be liable for incidental or consequential loss or damage.

Composite Tubes • Bearings • Molded Shapes • Rotary Vanes • Fabricated Parts • Vulcanized Fibre • High Temp Insulation