



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.

<u>Physical Properties</u>	<u>Test Procedure</u>	<u>Typical Values</u>
Specific Gravity	ASTM D638-97	1.91
Tensile Modulus	ASTM D638-97	30.7×10^3 psi
Flexural Strength (tube)	ASTM D790-97A	2.28×10^6 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

<u>Electrical Properties</u>		
Arc Resistance	ASTM D495	150 Sec.
Inclined Plane Track Resistance	ASTM D2303	300 Min.

<u>Thermal & Flammability Properties</u>		
U.L.® 94 Flammability Rating		94V-O
U.L. Temperature Index		
	Electrical	UL76B
	Mechanical	UL76B
		130° C
		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