



**PLASTICS & NON-METALLICS
FOR INDUSTRY SINCE 1921**

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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.

<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

Electrical Properties

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

Thermal & Flamability Properties

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

All values are average test results from typical production material.
No Warranty is implied or guaranteed and testing is recommended for each application.

Epoxies • Phenolics • Melamine • Silicone • Polyester • Sheets • Molded Shapes • Tubes • Cut to Size • Fabricated Parts

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