

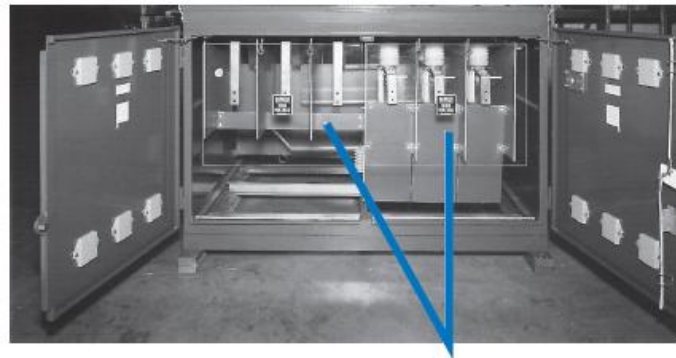


Data Sheet: GPO3

Grade UTR

Arc/Track & Flame
Resistant Laminate

- 1,000 Minutes Track Resistance
- Electrically Insulating
- Highly Flame Resistant
- Low Smoke & Smoke Toxicity
- UL® Recognized
- NEMA Grade GPO-3



Low-Profile Switchgear Cabinet – Interphase and end barriers are fabricated from Grade UTR Laminate.

Grade UTR is a fiberglass reinforced thermoset polyester material.

It is available in sheet form as well as a wide selection of channel, angle, and tube sizes. These materials are the industry standard for flame and arc/track resistant electrical insulation. In addition, the excellent combination of high strength, flame resistance, and low smoke generation has given it application in many other areas such as transit and marine where safe, yet economical materials are required. Additional information and samples can be obtained through Röchling Glastic Composites Customer Service or your local authorized distributor.



ELECTRICAL INSULATION COMPANY

www.eiccompany.com



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	UNIT	Procedure	Typical Value ¹
General Information			
Part Number	1491, 1493, 1494, 1495, 1497		
Standard Color	White, Red, Black		
NEMA Grade Li 1-1989		NEMA LI-1	GPO-3
Mechanical Properties			
Tensile Strength	Psi	ASTM D638	8,000
Tensile Modulus	Psi X 10 ⁶	ASTM D638	1.7
Flexural Strength	Psi	ASTM D790	22,100
Flexural Strength – 130°C	Psi	ASTM D790	13,100
Compressive Strength	Psi	ASTM D695	33,100
Shear Strength	Psi	ASTM D732	11,600
IZOD Impact Strength (notched)	ft. lb./in.	ASTM D256	8.9
Water Absorption	% by wt.	ASTM D570	0.4
Specific Gravity	–	ASTM D792	1.81
Electrical Properties			
Electrical Strength – Perpendicular S/T in air	Vpm	ASTM D149	450
Electrical Strength – Perpendicular S/T in oil	Vpm	ASTM D149	584
Electrical Strength – Parallel S/S in oil	kV	ASTM D149	47
Arc Resistance	Sec.	ASTM D495	180
Inclined Plane Track Resistance – 1/4" thick @ 2.5 kV		ASTM D2303	1,000
IEC Track Resistance (CTI) @ 3 mm thickness	V.	UL746A	>600
UL High Voltage Track Rate	In./Min.	UL746A	0
Permittivity, 60 Hz	–	ASTM D150	4.1
Dissipation Factor, 60 Hz	–	ASTM D150	0.013
Permittivity, MHz	–	ASTM D150	4.1
Dissipation Factor, MHz	–	ASTM D150	0.010
Insulation Resistance	Ohm x 10 ¹²	ASTM D257	3.1