



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	G2040 High Temperature Epoxy Glass Filament Wound Tube		
Description:	G2040 epoxy glass tubes are wound from high temperature resistant epoxy coated glass filament strands. The G2040 tube formulation has enhanced inter-laminar shear strength and excellent compressive strength retention at temperatures exceeding 205°C/400°F. Common applications demanding high temperature and high mechanical strength performance include bolt and fastening insulation for electric arc furnaces, high temperature transformer tap changers, downhole components for hydraulic fracturing, and rubber over-molded fuses.		
Availability:	Sizes:	Inner Diameter: from .250" - 6.00"	Wall Thickness: from 0.062" to 2.00"
	Fabricated Parts:	The Gund Company fabricates materials and components to the exact specifications and drawings of our customers. Customized tube properties according to filament wind angle are available upon request.	

Key Characteristics	Test Method	Units	Typical Values
Standard Wind Angle	--	--	55 +/- 10°
Color	--	--	Custom Colors Available
Flammability Rating	UL 94	--	HB
Compressive Strength	ASTM D-348	psi	20,000
Shear Strength	ASTM D-5448	psi	7,000
Barcol Hardness	ASTM D-2583	--	50
Tensile Strength (1/16" Thickness)	ASTM D348	psi	20,000
Hoop Strength	ASTM D-2290	psi	20,000
Density	ASTM D-348	gm/cc	2.0
Water Absorption	ASTM D-348	2 Hours	< 0.2%
		24 Hours	< 0.2%
Glass Transition Temperature, Tg	ASTM D-3418	°C	220
Dry Arc Resistance	ASTM D-495	Seconds	> 120
Dielectric Strength, Perpendicular 3/16" Wall	ASTM D-348 (short time)	V/mil	250 - 300
Dielectric Strength, Perpendicular 1/16" Wall	ASTM D-348 (short time)	V/mil	500
Parallel Dielectric Strength	ASTM D-348 (short time)	V/mil	250 - 300
Dielectric Constant	ASTM D-150	60 Hz, 10 kV	5