



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
 POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Conolite Glass Insulation

Description: A glass coated insulation material commonly used as turn insulation in large power generators. The Red Epoxy was designed for use in intermittent steam generators and will exhibit greater long-term temperature resistance than the Green Polyester grade. The Red Epoxy is no longer manufactured, but the data is made available for reference only. Both materials had relative temperature indices of 130 °C.

		English units	SI Units
Availability:	Thickness:	Red Epoxy: 0.012" and .005"	.31mm and .13mm
		Green Polyester: .005"	.13mm

Fabricated Parts: The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.

Key Characteristics:	Test Method	Units - English (SI)	Typical Values
Tensile Strength (crosswise)	D-638	psi (MPa)	35,892 (248)
Tensile Strength (lengthwise)	D-638	psi (MPa)	35,690 (246)
Tensile Modulus (crosswise)	D-638	psi x 10	19.1
Tensile Modulus (lengthwise)	D-638	psi x 10	19.8
Flexural Strength (crosswise)	D-695, (flatwise)	psi (MPa)	62,829 (433)
Flexural Strength (lengthwise)	D-790	psi (MPa)	76,685 (529)
Modulus of Elasticity (crosswise)	D-790	psi x 10	1.95
Modulus of Elasticity (lengthwise)	D-790	psi x 10	2.63
Compressive Strength	D-695	psi (MPa)	53,400 (368)
IZOD Impact Strength	D-256	ft-lbs/in	33.0
Barcol Hardness			68
Water Absorption	D-570	%	.44
Dielectric Strength	D-149	V/mil (kV/mm)	620 (24.2)
Arc Resistance	D-495	sec	152
Dissipation Factor	D-150		.018
Dielectric Constant	D-150		4.99
Loss Index	D-150		.09
Volume Resistivity	D-257	Ohms/cm	866
Surface Resistivity	D257	MOhms	1,600

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