



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: TufQuin with Polyester Film

Description: Quin-T TFT composites are a family of laminates based on Quin-T's advanced high performance hybrid insulation material, TufQuin 110 hybrid inorganic/organic paper bonded to both of polyester film using a high-temperature resin system.

TufQuin TFT laminate insulation is designed to meet the high-performance requirements found in Class H (180°C) rotating electrical apparatus and dry type transformers.

Application: TufQuin TFT laminate insulation is designed for use as slot cell, phase and wedge insulation for motors and generators through Class H (180°C). They may also be used as layer and ground insulation in dry type transformers.

TFT laminates provide excellent value in use as they exhibit a balanced blend of electrical, physical, and thermal capabilities on a cost-effective basis. They are the product of choice for manufacturers seeking to improve the reliability of their equipment by upgrading the performance of the flexible electrical insulation used.

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

Key Characteristics	Units - English (SI)	TFT-3-3-3	TFT-3-5-3	TFT-3-71/2-3
Thickness	Mil (mm)	9 (0.23)	11 (0.28)	14 (0.36)
Tensile Strength, MD	lb./yard ² (kg/m ²)	100 (17.5)	173 (30.3)	196 (34.3)
Elongation, MD	%	22	20	20
Basis Weight	lb./yard ² (kg/m ²)	0.55 (0.30)	0.68 (0.37)	0.83 (0.45)
Dielectric Breakdown Strength	kV	10.8	14.5	16.1
Elmendorf Tear, MD	Grams	405	544	552
CMD		920	1,459	1,830

Key Characteristics	Units - English (SI)	TFT-3-14-3	TFT-5-3-5	TFT-5-5-5	TFT-510-5
Thickness	Mil (mm)	20 (0.51)	13 (0.33)	15 (0.38)	20 (0.51)
Tensile Strength, MD	lb./yard ² (kg/m ²)	240 (42)	112 (19.6)	143 (25.0)	229 (40.1)
Elongation, MD	%	18	22	21	20
Basis Weight	lb./yard ² (kg/m ²)	1.22 (0.66)	0.71 (0.39)	0.87 (0.47)	1.23 (0.67)
Dielectric Breakdown Strength	kV	19.5	11.8	15.0	19.1
Elmendorf Tear, MD	Grams	1450	760	1056	960
CMD		1,493	2,640	3,060	2,725

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