



TufQUIN TFT (*)
FLEXIBLE INSULATING LAMINATE

THERMAL CLASS H (180°C)
RECOGNIZED UL E65007

TufQUIN TFT is flexible insulation and consists of polyester film (PETP), covered on both sides with Tufquin inorganic/organic fibres and high thermally stable adhesive. It shows high thermal conductivity and low water absorption it is available in white. This laminate can be easily inserted due to its good sliding characteristics excellent resistance to abrasion and breakage.

Ideal for the construction and repair of all windings which must reach high demands of mechanical, dielectric and thermal resistance. (slots and interfaces).

Properties	Test Method	Units	Tolerance	TFT LAMINATES							
				2-1-2	2-2-2	2-3-2	2-4-2	2-5-2	2-7,5-2	2-10-2	2-14-2
Total thickness	IEC 60626-2	mm	±15%	0,13	0,15	0,18	0,20	0,23	0,30	0,35	0,45
Film thickness	IEC 60626-2	µm		23	50	75	100	125	190	250	350
Weight	IEC 60626-2	g/m ²	±12%	144	180	215	250	285	375	460	590
Yield	IEC 60626-2	m ² /kg	±12%	6.94	5.56	4.65	4.00	3.51	2.66	2.17	1.69
Typical Values											
Tensile strength MD	IEC 60626-2	N/cm	min.	91	124	149	182	198	259	340	436
Tensile strength CD	IEC 60626-2	N/cm	min.	68	123	159	184	292	417	432	639
Elongation MD	IEC 60626-2	%	min.	15	15	15	15	20	20	20	20
Elongation CD	IEC 60626-2	%	min.	20	20	20	20	25	25	25	25
Breakdown Voltage	IEC 60626-2	kV	min.	6	8	10	12	14	18	20	22

Properties	Test Method	Units	Tolerance	TFT LAMINATES							
				3-1-3	3-2-3	3-3-3	3-4-3	3-5-3	3-7,5-3	3-10-3	3-14-3
Total thickness	IEC 60626-2	mm	±15%	0,18	0,20	0,23	0,25	0,28	0,34	0,41	0,51
Film thickness	IEC 60626-2	µm		23	50	75	100	125	190	250	350
Weight	IEC 60626-2	g/m ²	±12%	235	271	306	341	376	470	551	691
Yield	IEC 60626-2	m ² /kg	±12%	4.26	3.69	3.27	2.93	2.66	2.13	1.81	1.45
Typical Values											
Tensile strength MD	IEC 60626-2	N/cm	min.	103	138	168		224	282	352	455
Tensile strength CD	IEC 60626-2	N/cm	min.	79	112	186		275	362	483	581
Elongation MD	IEC 60626-2	%	min.	15	15	15	15	20	20	20	20
Elongation TD	IEC 60626-2	%	min.	20	20	20	20	25	25	25	25
Breakdown Voltage	IEC 60626-2	kV	min.	6	8	10	12	14	18	20	22

(*) S.E.G. ROYAL DIAMOND, S.A. distributes and transforms the 3M products.

This information is based on test carried out in our laboratory. However, we do not accept any responsibility for its application.