

ELECTRICAL INSULATING MATS CONFIRMING TO IS 15652 / 2006
(SUPERCEDING IS : 5424 – 1969) B.I.S + CPRI + NTH + ERDA APPROVED

SL.NO	CLASS OF MATS	DIELECTRIC STRENGTH	AC RMS VOLTAGE GRADE UP TO	SHEET SIZE X THICKNESS
1.	A	30 KV	0 - 3.3 KVA	1M X 2M X 2.0MM
2.	B	45 KV	3.3 - 11.0 KVA	1M X 2M X 2.5MM
3.	C	65 KV	11 - 33.0 KVA	1M X 2M X 3.0MM

TECHNICAL SPECIFICATIONS :

SIZE	:	1 MTR X 2 MTR (LONGER LENGTHS AVAILABLE AGAINST ORDER)
COLOUR	:	BLACK / RED / BLUE (OTHER COLOUR AS AGREED BETWEEN SUPPLIER AND PURCHASER)
FINISH	:	ONE SIDE PLAIN / OTHER SIDE PATTERNED
TENSILE STRENGTH	:	FOR TEMP. – 10 TO 55 DEG. C – 15 N/MM2 (MIN.)
ELONGATION AT BREAK	:	FOR TEMP. – 10 TO 55 DEG. C – 250 DEG. % (MIN.)
INSULATION RESISTANCE WITH WATER	:	10,00,000 MΩ (MIN.)
LEAKAGE CURRENT	:	10μA (MAX.)
FLAME RETARDENCE	:	THE MAT IS RETARDED TO FIRE
LOW TEMPERATURE RESISTANCE	:	NO TEAR, BREAK OR CRACK IS OBSERVED IN MATS UNDER FORCE OF 100N FOR 30 HRS. AT – 40 ±3 DEG. C

AGING TEST (FOR TEMP. – 10 TO 55 DEG. C)

1. TENSILE STRENGTH : NOT LESS THEN 75% WITHOUT AGING.
2. ELONGATION AT BREAK : NOT LESS THEN 75% WITHOUT AGING.

EFFECT OF NAOH, TRANSFORMER OIL, HCL (FOR TEMP. – 10 TO 55 DEG. C)

1. TENSILE STRENGTH : NOT LESS THEN 80% WITHOUT AGING.
2. ELONGATION AT BREAK : NOT LESS THEN 80% WITHOUT AGING.

COMPOSITION : THE MATS ARE MADE UP OF BLEND OF SYNTHETIC POLYMERS.

MATERIAL TEST CERTIFICATE AVAILABLE