



INSULATING MATS FOR ELECTRICAL PURPOSES

IS:15652-2006



Insulation Mat For Electrical Purpose IS :15652 /2006

Application: Safety from electrical shock is required for workmen whether they are involved in electricity generation, transmission, distribution or its use. Poly Electro safe Mat are highly recommended for total safety of workmen from electrical shock when working in or around environment like-

- High Voltage Panels,
- Sub-station,
- Power Transformer Rooms,
- LT & HT Labs,
- Near Bus bars,
- Near Control Panels etc.

Features & Specifications:-

1. Confirming IS: 15652/2006 (Latest), ISI marked.
2. High Dielectric Strength Up to 65 KV.
3. Insulation Resistance Up to 1494000 Mega Ohm.
4. No Adverse Effect of Acids, Alkalis and Transformer Oil.
5. Manufactured Without Any Metallic Derivatives
6. Suitable For Both A.C & D.C Electrical Installations
7. Easy To Install.
8. Water And Moisture Proof, Does Not Decay.
9. High Tensile Strength and Elongation Properties

VOLTAGE RATEINGS

CLASS	THICKNESS	WORKING GRADE	PROOF VOLTAGE	B/DOWN VOLTAGE
A	2.0 mm	3.3 KV	10KV/3 minutes	30 KV
B	2.5 mm	11 KV	22KV/3 minutes	45 KV
C	3.0 mm	33 KV	36KV/3 minutes	65 KV

- **Construction:** Made from Highly Electrical resistant Elastomers, free from any insertions (includes rubbers, latex and Elastomeric compound that may be natural or synthetic or a mixture or a combination of both)
- **Surface:** Upper surface of the mat is having small anti-skid aberration marks (rough surface, without edges) to avoid slippery effects.
- **Dimensions:** Sizes are 1mtr x 2mtr or long length and thickness as per classification & designation
- **Color:** Any Color but without Metallic Derivatives. Generally Blue, Black & Red.
- **Working Temp:** -10 to 55°C

TECHNICAL SPECIFICATION IS:15652/2006

S No.	Characteristics	Standard Values		
1.	Thickness	2.0mm	2.5mm	3mm
2.	Tensile Strength(N/mm ²)	15	15	15
3.	Elongation (%)	250	250	250
4.	Insulation Resistance with water at 500V	1,000,000MΩ	1,000,000MΩ	1,000,000MΩ
5.	Leakage Current at 11KV	10mA	10mA	10mA
6.	Dielectric Strength	30KV	45KV	65KV
7.	Flame Retardance	5.0sec	5.0sec	5.0sec
8.	Effect to Acid, Alkali, Transformer Oil Acid: Tensile Str.(N/mm ²) Elog(%)	% Change from Original Value	% Change from Original Value	% Change from Original Value
9.	Alkali: Tensile Str.(N/mm ²) Elog(%) Diesel: Tensile Str.(N/mm ²) Elog(%) T.Oil: Tensile Str.(N/mm ²) Elog(%)	Tensile Strength 20% Elongation 20%	Tensile Strength 20% Elongation 20%	Tensile Strength 20% Elongation 20%
10.	Ageing Properties at 70 ± 1 (°C) for 168 hrs. Tensile Strength (Elongation %)	% Change from Original Value T.S 25%	% Change from Original Value T.S 25%	% Change from Original Value T.S 25%