SANDHYA ENTEPRISES

ISO 9001:2015 CERTIFIED COMPANY

Plot No 5-24-1223/5/1, Ambedkar Nagar,
Gajuramaram,
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Electrical Rubber Mat

"SANDHYA ENTERPRISES" is a Manufacturer and Supplier of electrical rubber insulating mats as per IS 5424:1969. We offer premium quality rubber mat for electrical purpose. Electrical Rubber Mat is highly recommended for the safety of the workmen against the electrical hazards. These Electrical Rubber Mats are highly economical and suitable for general use also. However, we recommend use of Insulated Rubber Mats as per latest Indian Standard i.e IS 15652:2006 for electrical insulation.

The material used in our insulating rubber mat are made out of natural rubber having good electrical resistance and mechanical properties. They are available from 6mm to 25mm thickness

in standard size of 1M x 2M with Checkered or Fluted Design. Manufacturer's Test Certificate is provided along with the supply.

Sandhya insulating rubber mats are designed for the use as floor covering for the protection of workers on AC (alternate current) DC (direct current) installations with the system voltages upto 66kV AC and 240V DC, in accordance with Bureau of Indian Standard IS 15652 : 2006, which supersedes previous IS 5424 of 1969.

Sandhya electrical resistance insulation mats are made from vulcanized rubber compound free from fabric insertions and fibrous materials and it is guaranteed for the period of 18months from the date of dispatch or 12months from the date of usage whichever is earlier. In case of failure, our scope of warrantee limit only to the repairs or replacement.

Product Code	**Thickness**	**Recommended Use/ Working Voltage**	**AC Proof Voltage**	**Di-electric Strength (Withstand Voltage)**	
SE-ERM 001	6.0 mm (1/4")	0.4 KV	15.0 KV	40.0 KV	
SE-ERM 002	8.0 mm (5/16")	1.0 KV	15.0 KV	40.0 KV	
SE-ERM 003	10.0 mm (3/8")	7.5 KV	15.0 KV	40.0 KV	
SE-ERM 004	12.0 mm (1/2")	11.0 KV	15.0 KV	40.0 KV	
SE-ERM 005	16.0 mm (5/8")	17.0 KV	15.0 KV	40.0 KV	
SE-ERM 006	19.0 mm (3/4")	22.0 KV	15.0 KV	40.0 KV	
SE-ERM 007	25.0 mm (1")	33.0 KV	15.0 KV	40.0 KV	
SE-ERM-CD (Custom)	Upto 50.0 mm	Upto 33.0 KV	15.0 KV	40.0 KV	-

Sl No.	Characteristics	**Values**
1	Material Composition	Special rubber compound of high quality natural rubber free from any insertion.
2	Tensile strength (T.S.)	50 Kg/cm2 (min.)
3	Elongation at Break (E.B.)	250% (min.)
4	Leakage Current	10 mA (max.)
5	Water Absorption	4% (max.)
6	Compression Set	10% (max.)
7	Ageing Properties at 70±1°C for 168 hours.	a) T.S.: ±10% - 25% change (max.) b) E.B.: ±10% - 25% change (max.)
8	Working Temperature	0°C to 55°C

Sl No.	Features	Values
1	Standard Size & Design	1) 1.0 Mtr. Wide x 2.0 Mtr. Long. 2) 3.0 Ft. Wide x 6.0 Ft. Long.
2	Custom Size & Design	Max. width upto 1000mm, length upto 2000mm and thickness upto 50mm available.
3	Standard Colour	Black (Red & other colours available on request subject to availability.)
4	Manufacturing Tolerance	±10% on thickness, ±5% on length, ±2% on width.

Ordering Information:

- Class
- Total Quantity Required
- Working Voltage
- Thickness, Length & Width
- Colour

Note: The data on this page represent typical values. Since application variables are a major factor in product performance, this information should serve only as a guideline. We assume no obligation or liability for use of this information. Unless we agree otherwise in writing, we make no warranties, express or implied, and disclaim all implied warranties. We shall not be liable for any special, incidental or consequential damages. We reserve the right to change product design and properties without notice.

Test Report

Testing Standard : IS:5424-1969 Specification.

S. No	Tests	Permissible Limits as per IS:5424-1969 Specification Specification	Relevent Code for Testing Procedure/Method	Results
1	**Physical Properties - Before Ageing of Lining**			
	Tensile Strength	50kg/cm^2	IS : 3400 (Part I)	65kg/cm^2
	Elongation at Break	250% (min)	IS : 3400 (Part I)	400%
2	**Physical Properties - After Ageing @ 70 ^{o} C for 72 Hrs**			
	Tensile Strength	+10/-25%	IS : 3400 (Part I)	13.0 MPa
	Elongation at Break	+10/-25%	IS : 3400 (Part I)	420%
3	Water absorption	4% (max)		2.8%
4	Compression Set	10% (max)		9%
5	**Electrical Properties**			
	Working Voltage	33.0 KV		Tested and Found OK
	AC Proof Voltage	15.KV		Tested and Found OK
	Di-electric Strength	40.0KV		Withstand Voltage 45KV
3	**Dimension 6mmx1x2Mtr**			
	Thickness	$\pm$ 10%		25.5mm
	Length	$\pm$ 5%		2010mm
	Width	$\pm$ 2%		1020mm

The above tests are carried out on specially molded test pieces as per specification and found satisfactory.