

DURATUF INSULATION MATS (IEC 61111:2009)

IEC Compliant | High Quality Dielectrical Rubber | High Voltage Resistant



Overview

These electrical insulation mats are manufactured as per the IEC 61111:2009 standard set by the International Electrotechnical Commission and are highly electrical resistant. These mats protect from mortal shocks generated by high voltage equipment.

We recommend thickness from 2mm to 4mm (higher thickness also available) depending on use working voltage resistance with anti-skid textured on both top and bottom surface. We also have available fine-ribbed design in 3mm & 5mm thickness. It is leakage, moisture and water proof guaranteeing long functional life. It is also fire, oil and acid resistant. Manufacturer's Test Certificate is provided along with the supply.

Technical Information

Product Code	Class	Thickness	Max Thickness Allowed	Working Voltage	AC Proof Voltage	Di-electric Strength	Weight per m ²
Both Side Fabric Surface Finish (Standard)							
IEC 001	0	2.0 mm	6.0 mm	1.0 KV	5.0 KV	10.0 KV	3.2 Kgs
IEC 002	1	2.0 mm	6.0 mm	7.5 KV	10.0 KV	20.0 KV	3.2 Kgs
IEC 003	2	3.0 mm	8.0 mm	17.0 KV	20.0 KV	30.0 KV	4.8 Kgs
IEC 004	3	3.0 mm	11.0 mm	26.5 KV	30.0 KV	40.0 KV	4.8 Kgs
IEC 005	4	4.0 mm	14.0 mm	36.0 KV	40.0 KV	50.0 KV	6.4 Kgs
IEC CD (Custom)	-	Upto 2.0 mm	Upto 14.0 mm	Upto 36.0 KV	Upto 40.0 KV	Upto 50.0 KV	-
Fine Ribbed Top & Textured Bottom Surface (On Request)							
IEC RB 001	0~2	3.0 mm	8.0 mm	17.0 KV	20.0 KV	30.0 KV	4.5 Kgs
IEC RB 002	3~4	5.0 mm	14.0 mm	36.0 KV	40.0 KV	50.0 KV	7.5 Kgs

Characteristics	Values
Material Composition	Elastomer free from any insertion. Typically, a combination of natural rubber and other synthetic polymers.
Mechanical Puncture Resistance	70 N (min.)
Slip Resistance	50 N (min.)
Ageing Properties at 70±2°C for 168 hours.	Mechanical Puncture Resistance not less than 80% of original value.
Flame Retardance	Does not catch fire.
Low Temperature Test at -25±3°C	No visible tear, crack or break.
Acid Resistance	Mechanical Test Values not less than 75% of original value.
Oil Resistance	Mechanical Test Values not less than 75% of original value.
Working Temperature	-25°C to 55°C

Standard Size	1) 1.0 Mtr. Wide x 10.0 Mtr. Long. 2) 1.2 Mtr. Wide x 10.0 Mtr. Long.
Custom Size	Width x Length as per Customer Requirement.
Standard Colour	Black without Metallic Derivatives.

Cut lengths, custom shapes, and colours are available upon request.

Note: Manufacturing tolerance of ± 10% on thickness, ± 2% on length & width shall be applicable.



Applications

Duratuf Insulation Mats has been designed for use as electrical safety floor covering in:

- > Electrical Substations
- > Near HT/LT Control Panels
- > In Front of Switchboards
- > Around Buss Bars
- > Transformer, Generator & Lift Rooms
- > For Outdoor/Indoor Onsite Work on Live Equipment

Inquiry/Ordering Info

- > Class *
- > Working/Use Voltage *
- > Surface Finish *
- > Thickness x Width x Length *
- > Colour *
- > Total Quantity Required *

* Mandatory



AVAILABLE IN FINE-RIBBED DESIGN ON REQUEST

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The date on this sheet represent typical values and should be used as a guide only. We reserve the right to change the specification without notice and assumes no liability for use of this information.

Duratuf Products | Insulating Mats