

# DURATUF INSULATING MATTING (ASTM-D-178)

ASTM Compliant | High Quality Dielectrical Rubber | High Voltage Resistant



## Overview

These electrical rubber insulating mattings are manufactured as per the ASTM D 178 standard set by the American Society for Testing and Materials. These non-conductive rubber mats help protect the workforce from electrical shocks.

The ASTM D 178 standard recommends thickness from 3.2mm to 12.7mm for the mats depending on use/working voltage resistance with anti-skid textured finish on both sides or fine-ribbed top and textured bottom surface. These safety rubber mats (Type-I grade) are leakage, moisture and water proof that guarantee long functional life. Type-II grade offers additional properties such as ozone, flame and oil resistance. Manufacturer's Test Certificate is provided along with the supply.

## Technical Information

Product Code	Class	Thickness	Working Voltage	AC Proof Voltage	Di-electric Strength	Weight per m <sup>2</sup>
ASTM 001	0	3.2 mm	1.0 KV	5.0 KV	6.0 KV	5.0 Kgs
ASTM 002	1	4.8 mm	7.5 KV	10.0 KV	20.0 KV	7.5 Kgs
ASTM 003	2	6.4 mm	17.0 KV	20.0 KV	30.0 KV	10.0 Kgs
ASTM 004	3	9.5 mm	26.5 KV	30.0 KV	40.0 KV	15.0 Kgs
ASTM 005	4	12.7 mm	36.0 KV	40.0 KV	50.0 KV	20.0 Kgs
ASTM CD (Custom)	-	Upto 25.0 mm	Upto 36.0 KV	Upto 40.0 KV	Upto 50.0 KV	-

Characteristics	Values	
	Type-I	Type-II
Material Composition	Elastomer free from any insertion. Typically, a combination of natural rubber and other synthetic polymers.	
Antiskid Design	Our standard design is both side antiskid textured surface finish. However top side fine ribbed design is also available on request.	
Tensile strength (T.S.)	4.83Mpa (min.)	
Elongation at Break (E.B.)	250% (min.)	
Ageing Properties at 70±1°C for 168 hours.	Tensile strength not less than 50% of original value.	
Moisture Absorption	1.5% (max.)	3.0% (max.)
Ozone Resistance (Type IIA)	N.A.	No visible effect.
Flame Resistance (Type IIB)	N.A.	12.7 mm height max. after 30 secs.
Oil Resistance (Type IIC)	N.A.	4% max. volume increase.

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

Unless specified insulating matting shall be supplied as per Type I grade. Type II grade (A-Ozone Resistance, B-Flame Resistance, C-Oil Resistance) with combination of all three or individual properties & 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 Insulating Matting 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 \*
- > Type \*
- > Thickness x Width x Length \*
- > Colour \*
- > Total Quantity Required \*

\* Mandatory



**AVAILABLE IN FINE-RIBBED DESIGN ON REQUEST**

[www.duratufproducts.com](http://www.duratufproducts.com) | [sales@duratufproducts.com](mailto:sales@duratufproducts.com)

The data 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**