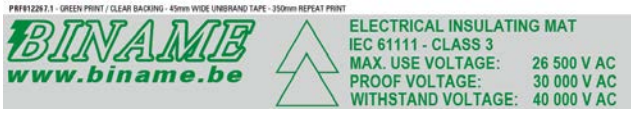
Insulated Rubber mat - Technical specification - BTIR

Uses: Matting of insulating material for electrical purposes
Conform to : IEC 61111:2009

Article	Dimensions	Class	Recommended Max Use Voltage	Proof Voltage (*)	Withstand voltage (**)	Texture	Hardness	Thickness	Marking	
BTIR 010	10mx1m	0	1.000 Volt	5.000 V	10.000 V	- Fine ribbed on top - Cloth on reverse	65 ShA	3 mm -0,2 / +0,3 mm	Reverse side	
BTIR 012	10mx1,20m									
BTIR 0210	10mx1m	2	17.000 Volt	20.000 V	30.000 V	- Fine ribbed on top - Cloth on reverse	65 ShA	3 mm -0,2 / +0,3 mm	Reverse side	
BTIR 0212	10mx1,20m									
BTIR 0310	10mx1m	3	26.500 Volt	30.000 V	40.000 V	Cloth impression on both sides	65 ShA	3 mm -0,2 / +0,3 mm	On top of mat	
BTIR 0312	10mx1,20m									
BTIR 0410	10mx1m	4	36.000 Volt	40.000 V	50.0000 V	Cloth impression on both sides	65 ShA	4 mm -0,3 / +0,4 mm	On top of mat	
BTIR 0412	10mx1,20m									
BTIR 0410 ST	10mx1m	4	36.000 Volt	40.000 V	50.000 V	- Fine ribbed on top - Cloth on reverse	65 ShA	4,5 mm -0,3 / +0,4 mm	Reverse side	
BTIR 0412 ST	10mx1,20m									

Colour : grey

Min Width in rolls : 700 mm

Max Width in rolls : 12000 mm

Length of rolls : 0,6m - 1m - 5m - 10 m

Mattings have repeated print on the whole length of the rolls

On request production date can be added (min quantities to be ordered) – Production date is mentioned on packing
All mats are proof tested dielectrically before they are sold

sprl **BINAME** bvba – Robert Dansaertlaan, 250 - 1702 Groot-Bijgaarden - Belgium
Tel : +32 (02)466.25.08 - Fax : +32 (02)466.59.90 - E-mail : info@biname.be - URL : http://www.biname.be

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(*) Proof test Voltage – acc to standard IEC61111

The electrical insulating matting shall be given a PROOF voltage test as specified in the table (see underneath this text). The voltage shall be initially applied at a low value and gradually increased at a constant rate-of-rise of approximately 1 000 V/s until the specified test voltage level is reached. The test period shall be considered to start at the instant the specified voltage is reached.
The test shall be considered as passed if the specified test voltage is reached and maintained for 3 min without the occurrence of disruptive discharge or other electrical failure.

Class of electrical insulating matting	Voltage kV r.m.s.	
	Proof test	Withstand test
0	5	10
1	10	20
2	20	30
3	30	40
4	40	50

(**) Withstand test voltage – acc to standard IEC61111

The WITHSTAND voltage test shall be applied to each test piece at a constant rate-of-rise of 1 000 V/s until the withstand voltage value given in Table below is reached.
The test shall be considered as passed if no electrical puncture occurs.

Class of electrical insulating matting	Voltage kV r.m.s.	
	Proof test	Withstand test
0	5	10
1	10	20
2	20	30
3	30	40
4	40	50

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