

# 830 Switchboard Matting™ Class 2



- Insulating matting prevents workers from being ‘grounded’, provides safety in case of electrical shock (not ESD).
- Ozone, flame and oil resistant.
- Can be cut down and will not lose its properties.
- Has to be replaced every 12 months for optimum safety and directly after damaging
- Conforms to ANSI/ASTM D-178
- Free of toxic DOP and DMF.
- Class 2; recommended maximum usage voltage 17,000.
- Recommended for distribution boards, switchgear, sub-stations, transformers, generators, electrical workbenches.



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| PRODUCT SPECIFICATIONS         |                                                                                   |                                                                                                                                                                        |                                   |
|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Designation                    | Specialty Matting                                                                 |                                                                                                                                                                        |                                   |
| Type                           | Electrical protective matting                                                     |                                                                                                                                                                        |                                   |
| Description                    | Corrugated rib pattern surface<br>Underside has fabric impression                 |                                                                                                                                                                        |                                   |
| Material                       | PVC                                                                               |                                                                                                                                                                        |                                   |
| Process                        | Calendering                                                                       |                                                                                                                                                                        |                                   |
| Category                       | Better                                                                            |                                                                                                                                                                        |                                   |
| Recommended use                | Near high voltage equipment<br>Maximum usage : 17,000 volts                       |                                                                                                                                                                        |                                   |
| Colours                        | Black                                                                             |                                                                                                                                                                        |                                   |
| Weight                         | 8.4 kg/m²                                                                         |                                                                                                                                                                        |                                   |
| Thickness                      | 6.4 mm                                                                            |                                                                                                                                                                        |                                   |
| Standard sizes                 | 91 cm x 150 cm<br>91 cm x 22.8 m                                                  |                                                                                                                                                                        |                                   |
| Custom sizes                   | N/A                                                                               |                                                                                                                                                                        |                                   |
| Special remarks                | Has to be replaced every 12 months for optimum safety and directly after damaging |                                                                                                                                                                        |                                   |
| PRODUCT TESTING                |                                                                                   |                                                                                                                                                                        |                                   |
| Tests                          |                                                                                   | Norms                                                                                                                                                                  | Results                           |
| Compression deflection         |                                                                                   | U.S.                                                                                                                                                                   |                                   |
|                                | 1.4 kg/cm²                                                                        |                                                                                                                                                                        |                                   |
|                                | 2.8 kg/cm²                                                                        |                                                                                                                                                                        |                                   |
| Foam battery                   |                                                                                   | ASTM D3574                                                                                                                                                             |                                   |
| Abrasion resistance            |                                                                                   | ASTM D3884-01                                                                                                                                                          |                                   |
|                                | 500 Cycles                                                                        |                                                                                                                                                                        |                                   |
|                                | 1000 Cycles                                                                       |                                                                                                                                                                        |                                   |
| Static coefficient of friction |                                                                                   | ASTM C1028-96                                                                                                                                                          |                                   |
| Breaking load                  |                                                                                   | ASTM D412                                                                                                                                                              |                                   |
| Elongation                     |                                                                                   | ASTM D412                                                                                                                                                              | 317%                              |
| Electrical proof               |                                                                                   | ASTM D178-01 Min 20.000 V for 1 min                                                                                                                                    | Pass                              |
| Dielectric strenght            |                                                                                   | ASTM D149 Min 30.000 V                                                                                                                                                 | Pass                              |
| Oil resistance                 |                                                                                   | ASTM D471                                                                                                                                                              | Pass                              |
| Graves tear strength           |                                                                                   | ASTM D 1004                                                                                                                                                            | 2505 PI                           |
| Hardness                       |                                                                                   | ASTM D2240-02                                                                                                                                                          | 91 Shore A                        |
| Anti-slip                      |                                                                                   | DIN 51130 and BG-RULE BGR181                                                                                                                                           |                                   |
| Electrical Resistance - IBM    |                                                                                   | ASTM F-150<br>50% Humidity 100 volt                                                                                                                                    | RG 6.6 X 10º Ω                    |
| Static decay                   |                                                                                   | 101B/NFPA 99                                                                                                                                                           | Pass                              |
| Flexibility test               |                                                                                   | FED-STD-501                                                                                                                                                            | Pass                              |
| Dimensional stability test     |                                                                                   | ASTM D1204                                                                                                                                                             | 0.04 in/ft                        |
| FIRE TESTING                   |                                                                                   |                                                                                                                                                                        |                                   |
|                                | Critical radiant flux                                                             | ASTM E-648                                                                                                                                                             |                                   |
|                                | Fire retardancy                                                                   | DIN4102                                                                                                                                                                |                                   |
|                                |                                                                                   | EN 13501-1                                                                                                                                                             |                                   |
|                                | Flammability test                                                                 | ASTM D2859                                                                                                                                                             | Pass                              |
|                                | Flame resistance                                                                  | ASTM D178                                                                                                                                                              | Combustion time<br>4 min (1.9 in) |
| Sustainability                 |                                                                                   | <ul style="list-style-type: none"><li>• Recyclable material</li><li>• Reach Compliant (Registration, Evaluation, Authorization and Restriction of Chemicals)</li></ul> |                                   |