Electrical Safety Sealing

Insulating Mats and Rubber Sheeting

Made in India
Manufactured by HIC INTERNATIONAL CO INC

Technical Specifications
Optimum Production Solutions

HIC International Co Inc, formed in 1988 manufacturing industrial rubber and steel products ISO 9001 certified producer of Conveyor belt roller idler, Power Transmission belts coupling pulley, Hydraulic hose valve, Safety rubber sheet mat quality exporters of HIC Universal brand to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

Total Quality Management principles are followed and True Performance is thus assured.
**Why HIC Universal Electrical Insulating Mat?**

- **Excellent Shock Protection**
  Providing Good Electrical Safety

- **High Voltage and Spark Resistant**
  Floor Insulation

- **Anti-slip Design**
  Prevents Injury to Workmen Near Panel-board

**Why HIC Universal Rubber Sheet?**

- **High Resistance**
  to Steam, Water, Heat, Chemicals, Oil and Weather

- **Excellent Compression Set**
  Apt for Gasket, Diaphragms and Strips

- **Friction-proof and Corrosion-proof Jointing**
  Versatile Sheeting Solution

Electrical current safety anti-static floor covering essentials insulating mats manufactured of electrical-resistant up to 66 kV AC and 240 V DC voltage elastomer blend of synthetic rubber and natural rubber without insertion having anti-skid aberration marks top surface or chequered finish, while cork rubber sheets produced of dimensionally stable flexible cork rubberized bonded with nitrile or neoprene rubber And gaskets, diaphragm and flanges jointing leakage protection rubber sheeting are manufactured of single or combination of relevant synthetic rubber compound blended with chemicals vulcanized in Rotocure as well as hydraulic press-cured shock-proof mats steam quality rubber sheets made in India by HIC Universal.

HIC Universal insulating mat and rubber sheets are Original Choice by electrical substations equipment and storage silos manufacturers in India, China, Belgium, UK, Italy, Yemen, Norway, Finland, Chile, Canada, Slovakia, Czech Rep., Venezuela, Trinidad, Colombia, Malaysia, Spain, Netherlands, Ecuador, Mexico USA North America, South Korea, Australia, Philippines, Saudi Arabia, Singapore and other Asian countries.
Manufacturing RANGE and SIZES

Conforming IEC 61111, IS 15652, IS 5425, ASTM D178

IS 638, IS 5192, IS 2751 BS 2751 BS 2752, DIN 32676 quality standards

Classified under HS Code 4008

- Anti-skid Rubber Electrical Insulating Mat 50 KV current resistant 1m x 2m, 1.2m x 5m size up to 25mm Thick
- Neoprene Sheet 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 50mm Thick
- Nitrile 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 50mm Thick
- Shot Blast 1m x 2m, 1.2m x 2.4m size 4 to 20mm Thick
- EPDM 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- Silicone 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- Viton 1.2m x 2.4m, 1.4m x 10m size 3 to 25 mm Thick
- Hypalon 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- SBR 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size till 25 mm Thick
- Natural 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size up to 25 mm Thick
- Insertion White Sheet 1m x 2m size 3 to 25 mm Thick
- Cork Sheet 2ft x 3ft size up to 25 mm Thick
- Anti-slip Floor Mat Button Design 1.2m x 10m size 3 to 6 mm Thick
- Horse Mat & Cow Mats 4ft x 6ft size 15 to 25mm Thick
- Skirt-Board Rubber 200mm W x 25 mtr Long size 8 to 20mm Thick
- Rubber Lagging 1m x 2m, 1.2m x 2.4m, 1.4m x 10m size 6.5 to 25mm Thick
Nomenclature of Insulating Matting as per IEC 61111
Thickness of Dielectric Carpet, Size of Fine Ribbed Rubber Mat: Technical Data

<table>
<thead>
<tr>
<th>Thickness of Electrical Insulation Matting</th>
<th>IEC 61111:2009 / BS EN 61111:2009 Specification</th>
<th>Dielectric Test Voltage When New</th>
<th>Working Voltage (Nominal Maximum Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms per Square Meter #</th>
</tr>
</thead>
<tbody>
<tr>
<td>3mm</td>
<td>Class 0 (Low Voltage, substitute of BS921 650V)</td>
<td>10kV (10,000V)</td>
<td>1,000V</td>
<td>5,000V</td>
<td>3.70 kg/m²</td>
</tr>
<tr>
<td>3.5mm</td>
<td>Class 1</td>
<td>20kV (20,000V)</td>
<td>7,500V</td>
<td>10,000V</td>
<td>6.10 kg/m²</td>
</tr>
<tr>
<td>4.0mm , 6mm</td>
<td>Class 2</td>
<td>30kV (30,000V)</td>
<td>17,000V</td>
<td>20,000V</td>
<td>5.00 kg/m² , 7.5 kg/m²</td>
</tr>
<tr>
<td>4.0mm, 6mm</td>
<td>Class 3</td>
<td>40kV (40,000V)</td>
<td>26,500V</td>
<td>30,000V</td>
<td>5.0 kg/m² , 7.5 kg/m²</td>
</tr>
<tr>
<td>4.0mm , 6mm</td>
<td>Class 4</td>
<td>50kV (50,000V)</td>
<td>36,000V</td>
<td>40,000V</td>
<td>7.0 kg/m² , 10.5 kg/m²</td>
</tr>
</tbody>
</table>

Standard Sizes of Heavy Duty Switchboard Mats manufactured (Width x Length): 914mm (3ft) x 1.8meter (6ft), 1000mm (1meter) x 2m, 1m x 5m, 1m x 10m, 1.2m x 2m, 1.2m x 5m and other sizes on request. Other thickness’s also produced.

Color of mat: Black or Grey / coding color as per Class for easy identification.

**Electrical-safety mats** are not intended to be used as “Hot” Rail Blanket and, should be borne in mind, “Not to Place Insulating Matting in Service or Use with Cracks or Punctures” as can be dangerous in the event of electrical current leakage.

*** Third Party Inspection from an independently accredited India Test Facility, like by ERDA, CPRI, or other Govt. approved laboratory test certificate can be provided for electrical matting on Extra charges to be directly reimbursed by buyer.

Nomenclature of Electrical Insulating Mats as per IS 15652
Thickness of Anti-slip Aberration Marks Rubber Mat, Size of High Voltage Insulation Mat: Technical Data

<table>
<thead>
<tr>
<th>Thickness of Safety Rubber Matting</th>
<th>IS 15652 / 2006 Specification</th>
<th>Dielectric Test Voltage When New</th>
<th>Working Voltage (Nominal Maximum Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms per Square Meter #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2mm</td>
<td>Class A</td>
<td>30kV (30,000V)</td>
<td>3,300V</td>
<td>10,000V</td>
<td>2.90 kg/m²</td>
</tr>
<tr>
<td>2.5mm</td>
<td>Class B</td>
<td>45kV (45,000V)</td>
<td>11,000V</td>
<td>22,000V</td>
<td>3.60 kg/m²</td>
</tr>
<tr>
<td>3mm</td>
<td>Class C</td>
<td>65kV (65,000V)</td>
<td>33,000V</td>
<td>36,000V</td>
<td>4.70 kg/m²</td>
</tr>
<tr>
<td>3.5mm</td>
<td>Class D</td>
<td>110kV (110,000V)</td>
<td>66,000V</td>
<td>70,000V</td>
<td>-</td>
</tr>
</tbody>
</table>

HIC Quality Testing Also Features:

- **High Electrical Insulation Resistance** 10,00,000 Mega Ohms when measured with 500 v Megger
- **Fire Retardant** < 5 seconds blue flame extinguished when tested after removal
- **Leakage Current** to 10 MA at 65 kV tested 100% Shockproof high voltage resistant mat

**Standard Sizes** of Switchboard Matting manufactured (Width x Length): 900mm (3ft) x 1.8 meter (6ft), 1000mm (1meter) x 2m, 1m x 5m, 1m x 10m, 1m x 20m, 1.2m x 2m, 1.2m x 5m, 1.2m x 10m and other sizes on request.

For special outdoor application use, high voltage insulation mats can also be supplied with higher thickness subject to single maximum roll length of 5m / 10 meters.

**Color** of mat: Black / Blue / Red with Marking as to Roll No., Class, Manufacturing Date, Manufacturer’s Identity i.e. HIC Universal.

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### Nomenclature of Switchboard Matting as per ASTM D178

**Thickness of Corrugated Rubber Mat, Size of Non Conductive Mats: Technical Data**

<table>
<thead>
<tr>
<th>Thickness of Safety Rubber Mat</th>
<th>ASTM D178-01 TYPE I / ANSI JS.7 Specification</th>
<th>Dielectric Test Voltage When New (Working Voltage)</th>
<th>Working Voltage (Nominal Maximum Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms per Square Meter #</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5mm (3/16&quot;)</td>
<td>Class 1</td>
<td>20kV (20,000V)</td>
<td>7,500V</td>
<td>10,000V</td>
<td>6.80 kg/m²</td>
</tr>
<tr>
<td>6mm (1/4&quot;)</td>
<td>Class 2</td>
<td>30kV (30,000V)</td>
<td>17,000V</td>
<td>20,000V</td>
<td>8.50 kg/m²</td>
</tr>
<tr>
<td>9mm (3/8&quot;)</td>
<td>Class 3</td>
<td>40kV (40,000V)</td>
<td>26,500V</td>
<td>30,000V</td>
<td>9.20 kg/m²</td>
</tr>
<tr>
<td>12mm (1/2&quot;)</td>
<td>Class 4</td>
<td>50kV (50,000V)</td>
<td>36,000V</td>
<td>40,000V</td>
<td>9.50 kg/m²</td>
</tr>
</tbody>
</table>

**Standard Sizes** of Switchboard Matting manufactured (Width x Length): 900mm (36inch) x 9meter (30ft), 1000mm (1meter) x 1m, 1m x 2m, 1.2m x 2m and other sizes on request.

**Color** of mat: Black / Yellow coding

## Nomenclature of High Voltage Rubber Mat as per IS 5424

**Thickness of Chequered Electrical Rubber Mat, Size of Insulating Mats: Technical Data**

<table>
<thead>
<tr>
<th>Thickness of Insulation Rubber Mat</th>
<th>IS 5424:1969 / BS:921 Specification</th>
<th>Dielectric Test Voltage When New</th>
<th>Working Voltage (Nominal Maximum Use)</th>
<th>Surface Proof Test Voltage</th>
<th>Weight (Approx.) Kilograms / Square Meter per 1MM Thick #</th>
</tr>
</thead>
<tbody>
<tr>
<td>6mm, 8mm, 10mm, 12mm, 15mm, 19mm, 25mm</td>
<td>May be substituted with Class 0 of IEC 61111 and Class A of IS 15652</td>
<td>&gt;40kV (40,000V)</td>
<td>3,300V</td>
<td>15,000V</td>
<td>1.00 kg/m²</td>
</tr>
</tbody>
</table>

**Standard Sizes** of Electrical Insulating Floor Mats manufactured (Width x Length): 1000mm (1meter) x 2m normal standard dimension, 900mm (3ft) x 1.8meter (6ft), 1.2m x 2.4m.

**Color** of mat: Black / Red with Marking as to Roll No., Manufacturer’s Identity i.e. HIC Universal.
Nomenclature of Rubber Sheet

*Thickness, Size for Gasket Material without Fabric & Cloth Insertion Sheeting for Diaphragms: Technical Data*

<table>
<thead>
<tr>
<th><strong>Rubber Sheet Gasket Material</strong></th>
<th><strong>Thickness (mm)</strong></th>
<th><strong>Size (width x length)</strong></th>
<th><strong>Color and Finish</strong></th>
<th><strong>Shore Hardness ‘A’ ± 5</strong></th>
<th><strong>Specific Gravity gm/cm³ ± 5%</strong></th>
<th><strong>Physical Properties</strong></th>
<th><strong>Compression Set % at 70°C for 22 hrs. AND Temp. Resistance</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEOPRENE (CR)</strong></td>
<td>1.5 to 50</td>
<td>1mx 2m</td>
<td>BLACK</td>
<td>60 to 75</td>
<td>1.4 (100% CR)</td>
<td>6, 7, 10, 12, 15</td>
<td>350 (-)30°C (+)100°C</td>
</tr>
<tr>
<td></td>
<td>1m x 5m</td>
<td></td>
<td></td>
<td></td>
<td>1.45 (65% CR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2mx2.4m</td>
<td></td>
<td>Smooth (standard) or Cloth Impression (1 side or Both) Reinforced Nylon ply 1 or 2 (optional)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2mx10m</td>
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</tr>
<tr>
<td><strong>NITRILE (NBR)</strong></td>
<td>1.5 to 50</td>
<td>1mx 2m</td>
<td>BLACK, RED, OFF-WHITE</td>
<td>60 to 65</td>
<td>1.45 (100% NBR)</td>
<td>7, 10</td>
<td>300 (-)30°C (+)110°C</td>
</tr>
<tr>
<td></td>
<td>1m x 5m</td>
<td></td>
<td></td>
<td></td>
<td>1.50 (65% NBR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2mx2.4m</td>
<td></td>
<td>Smooth (standard) or Cloth Impression (1 side or Both) Reinforced Nylon ply 1 or 2 (optional)</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>1.2mx10m</td>
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</tbody>
</table>

**Fire, Ozone, Gas, Oil Resistant Multi-function Chloroprene Rubber Sheeting Diaphragm material**

**Petroleum, Vegetable & Animal Oil Resistant, Impermeable to Gas** Acrylo nitrile Butadiene Rubber Sheeting Seal material
## Nomenclature of Rubber Sheet

<table>
<thead>
<tr>
<th>Rubber Material</th>
<th>Thickness (mm)</th>
<th>Size</th>
<th>Color, Finish</th>
<th>Shore Hardness</th>
<th>Specific Gravity</th>
<th>Tensile Strength</th>
<th>Elongation %</th>
<th>Comp % &amp; Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical, Flame, Ultra Heat Resistant</strong> Fluoro Elastomer Rubber Sheeting Gasket and Washer material</td>
<td></td>
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<tr>
<td>VITON (FKM)</td>
<td>1.0 to 25</td>
<td>1m x 2m</td>
<td>BLACK</td>
<td>70 to 75</td>
<td>1.95</td>
<td>7</td>
<td>200</td>
<td>45 (-)30°C (+)300°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
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<td></td>
<td></td>
<td>1.2m x 2.4m</td>
<td>Smooth (stand dard) or Cloth Impression (1 side)</td>
<td>1.2m x 10m</td>
<td>65, 70</td>
<td>1.25</td>
<td>6.5</td>
<td>250</td>
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</tr>
<tr>
<td><strong>Corrosive Chemicals, Steam, Outdoor Weather Resistant</strong> Ethylene Propylene Rubber Sheeting Roofing and Packing material</td>
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</tr>
<tr>
<td>EPDM</td>
<td>1.0 to 50</td>
<td>1m x 2m</td>
<td>BLACK, OFF-WHITE Smooth (standard) or Cloth Impression (1 side)</td>
<td>1.25</td>
<td>65, 70</td>
<td>1.25</td>
<td>6.5</td>
<td>250</td>
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<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
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<td></td>
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<td>1.2m x 2.4m</td>
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<tr>
<td></td>
<td></td>
<td>1.2m x 10m</td>
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</tr>
<tr>
<td><strong>Thermally Stable, Oxidation &amp; Hot Temperature Resistant Food Grade</strong> MQ Rubber Sheeting Pharma Seal material</td>
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<td></td>
</tr>
<tr>
<td>SILICONE (MQ)</td>
<td>1.0 to 25</td>
<td>1m x 2m</td>
<td>RED, BLUE, BLACK, TRANSLUCENT (OFF-WHITE) Food quality as per FDA Smooth (standard) or Cloth Impression (1 side)</td>
<td>1.20</td>
<td>50, 60</td>
<td>1.20</td>
<td>8</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1m x 5m</td>
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<td>1.2m x 2.4m</td>
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<td>1.2m x 10m</td>
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</tr>
</tbody>
</table>
## Nomenclature of Rubber Sheet

<table>
<thead>
<tr>
<th>Rubber Material</th>
<th>Thickness (mm)</th>
<th>Size</th>
<th>Color, Finish</th>
<th>Shore Hardness</th>
<th>Specific Gravity</th>
<th>Tensile Strength</th>
<th>Elongation %</th>
<th>Comp % &amp; Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ageing, Hot Water, Abrasion Resistant SBR Styrene Butadiene Rubber Sheeting Flange Gasket and Diaphragm material</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>SBR (Commercial sbr1502)</td>
<td>1.5 to 40</td>
<td>1mx 2m</td>
<td>BLACK, RED, OFF-WHITE Smooth (standard) or Cloth Impression (1 side or Both) Nylon Cloth Insertion ply 1 or 2 (optional)</td>
<td>65, 70</td>
<td>1.20</td>
<td>8</td>
<td>350</td>
<td>35 (-)40°C (+)110°C</td>
</tr>
<tr>
<td></td>
<td>1m x 5m</td>
<td>1.2mx2.4 m</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2mx 10m</td>
<td></td>
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</tr>
<tr>
<td><strong>Impact, Water &amp; Abrasion Resistant RMA General Purpose Pure Gum Rubber Sheet Flange Packing and Stopper material</strong></td>
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<td></td>
</tr>
<tr>
<td>SHOT BLASTING (NATURAL)</td>
<td>1.5 to 50</td>
<td>1mx 2m</td>
<td>BLACK, RED, OFF-WHITE Smooth (standard) or Cloth Impression (1 side or Both) Nylon or Cotton Fabric inserted ply 1 or 2 (optional)</td>
<td>45, 50, 60, 65</td>
<td>1.40</td>
<td>8, 12, 15, 17</td>
<td>400, 450, 500</td>
<td>30 (-)25°C (+)65°C</td>
</tr>
<tr>
<td></td>
<td>1m x 5m</td>
<td>1.2mx2.4 m</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>1.2mx 10m</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Transformer Oil Resistant, Thermal &amp; Acoustic Insulation Rubberised Cork Nitrile Sheet Gasket material</strong></td>
<td></td>
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</tr>
<tr>
<td>CORK RUBBER (NITRILE)*</td>
<td>3.0 to 25</td>
<td>0.6mx 0.9m</td>
<td>NATURAL BROWN, BLACK Smooth (standard)</td>
<td>50, 70, 80</td>
<td>50, 70, 80</td>
<td>6, 12, 19</td>
<td>-</td>
<td>80, 85, 90 (-)30°C (+)110°C</td>
</tr>
<tr>
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</tr>
</tbody>
</table>
## Nomenclature of Rubber Sheet

<table>
<thead>
<tr>
<th>Rubber Material</th>
<th>Thickness (mm)</th>
<th>Size</th>
<th>Color, Finish</th>
<th>Shore Hardness</th>
<th>Specific Gravity</th>
<th>Tensile Strength</th>
<th>Elongation %</th>
<th>Comp % &amp; Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phosphoric Acid, Alkali, Caustic Soda Resistant</strong> Butyl Rubber Sheet Lining and Corrosion Sealing material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUTYL (IIR)</td>
<td>1.5 to 15</td>
<td>1mx 2m</td>
<td>BLACK</td>
<td>55, 60, 65</td>
<td>1.35</td>
<td>6</td>
<td>250</td>
<td>40 (-40°C, +125°C)</td>
</tr>
<tr>
<td></td>
<td>1m x 5m</td>
<td>1.2mx2.4 m</td>
<td>Smooth(standard) or Cloth Impression (1 side)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2mx10m</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Corrosive Acid & Inorganic Chemicals Resistant CSM Rubber Sheeting Gasket and Seal material |
| HYPALON (CSM)   | 1.0 to 12      | 1mx 2m          | BLACK         | 60, 65         | 1.40             | 10              | 350          | 40 (-60°C, +150°C) |
|                 | 1m x 5m        | 1.2mx2.4 m      | Smooth(standard) or Cloth Impression (1 side) |
|                 | 1.2mx10m       |                 |               |                |                  |                 |              |               |

# Manufacturing Tolerances shall be deemed to be acceptable by buyers'.
  Size Tol. ±1%; Thickness Tol. ±2.5%; S.G. Tol. ±10%

## Commercial Grade SBR/NR rubber with Cloth Insertion for dimensional stability & resistant to steam pressure And without fabric reinforcement in different specific gravities quality produced on bulk order quantities.

### Neoprene Rubber Bonded Cork Sheet is also produced on request.

* Manufacture of Neoprene Rubber Cords, Silicon Rubber Cords also undertaken.

**Disclaimer:** Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.
Purchase Enquiry Info

Insulating Rubber Mat and Synthetic Rubber Sheet  Min. Information to Be Sent

(Email at: belts@universaldelhi.org ; universal@hic-india.com or Call +91 11 2874 5120)

HIC ships electrical insulating mat rubber sheets seal gasket material conforming IEC 61111, IS 5424, IS 15652, IS 5192 tailor-made to buyer’s order specifications to different countries including India. Please send following information in English to quote prices:

1. Matting or Sheeting Rubber compound name Grade
2. Rubber sheeting or mat Thickness, MM
3. Rubber sheet Size, w x l, Meter
4. Hardness Shore A, if any specific
5. Pure rubber or 1-2 ply cloth Insertion sheet
6. Colour, Black standard or any specific blue, red, grey, white
7. Surface Finish, smooth or cloth impression or calendared long length rough
8. Quantity- Numbers or Square Meters
Why HIC Universal Rubber Skirt and Pulley Lagging?

- **Long Lasting Quality**
  Skirting to Seal Conveyor Transfer Points

- **Sound Protection**
  in Various Environments from Iron Ore to Wet Clay

- **Lowest Coefficient of Friction**
  Helps Avoiding Belt Damages

- **Superb Belt Slippage Control**
  as Lagging Maintains Friction Grip

- **Excellent Material Build Up Prevention**
  in Conveyor Pulleys Enhances Belting Life

- **Good Bonding Layer**
  in Lagging Permits Reduced Adhesive Use

Conveyor belt materials spillage protection and straight running friction simulation skirt rubber and pulley lagging sheet manufactured of quality natural rubber compound and rubber-lagging sheet produced of synthetic rubber neoprene or SBR rubber diamond grooved or plain finish made in India by HIC Universal.

HIC Universal Skirt-rubber and diamond lagging sheet are Original Choice by conveyor component and belt conveyor system manufacturers in India, China, Australia, South Africa, United States, Canada North America, Peru Latin America, Brazil South America, Germany Europe, Russian Federation, Chile, Mexico, England-UK, Saudi Arabia, Indonesia, Yemen and other Asian countries.

**Manufacturing RANGE and SIZES**

Conforming ISO 868, DIN 53512, ISO 1629, DIN 53516, DIN 53479 quality standards

Classified under **HS Code 4409, 4008**

- **Skirt-Board Rubber 150mm–400mm W x 10 mtrs Long size 8 to 20mm thick**
- **Diamond Grooved Rubber Lagging in sizes 1m x 2 m and 1.2 m x 2.4 m from 6.5 mm to 15mm thick**
- **Plain Rubber Pulley Lagging in sizes 1m x 2 m and 1.2 m x 2.4 m from 6.5 mm to 15mm thick**

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**Nomenclature of Skirt Rubber**

*Hardness, Size, Thickness of Conveyor Skirt board Sealing: Technical Data*

<table>
<thead>
<tr>
<th>Shore Hardness 'A'</th>
<th>Size (width x length)</th>
<th>Thickness (mm)</th>
<th>Temperature Range</th>
<th>Physical Properties</th>
<th>Av. Tensile Strength</th>
<th>Av. Elongation</th>
</tr>
</thead>
<tbody>
<tr>
<td>55 to 65</td>
<td>100 mm to 350 mm W</td>
<td>8 to 20</td>
<td>-10°C to +65°C</td>
<td>10 MPa</td>
<td>400%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2m to 10m L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Finish: Platen type
Made out of Blended SBR/NR rubber slit sheet having good weather and abrasion resistance.

Heat Resistant grade moulded rubber block skirting to withstand temperature till 120 degree C (coarse materials) & +100°C (fines) as per ASTM D 412 also produced by HIC Universal.

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Nomenclature of Rubber Lagging
Thickness, Size, Finish of Pulley Lagging Sheet: Technical Data

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Size (width x length)</th>
<th>Finish</th>
<th>Rubber Grade (Colour)</th>
<th>Shore Hardness ‘A’</th>
<th>Physical Properties</th>
<th>Av. Tensile Strength (MPa)</th>
<th>Av. Elongation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5, 8, 10, 12, 15, 20</td>
<td>1mx 2m, 1.2mx 2.4m, 1mx 10m</td>
<td>Diamond Grooved, Plain, Herringbone Without Bonding Layer - Smooth or with Grinding, With Bonding Layer (Adhesive/Tie Gum Layer)</td>
<td>Natural (black), FRAS (black Fire Resistant), Nitrile (white Food)</td>
<td>60 to 75</td>
<td>6, 7, 10, 12, 15</td>
<td>350</td>
<td></td>
</tr>
</tbody>
</table>

Made out of RMA and SBR blend / Neoprene MSHA conforming / BUNA N rubber lagging sheet is having good abrasion and water resistance as per ASTM D 412 standards.  
# Also HIC Universal undertakes to produce longer length upon request.

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Purchase Enquiry Info
Rubber Skirt and Rubber Lagging Finish Min. Information to Be Sent

(Email at: belts@universaldelhi.org ; universal@hic-india.com or Call +91 11 2874 5120)

HIC ships rubber skirting and pulley lagging sheet conforming ISO 868, ISO 1629 tailor-made to buyer’s order specifications to different countries including India.

Please send following information in English to quote prices:

1. Rubber Skirting or Lagging dimensions **Size**, width and length MM
   Thickness mm
2. Rubber **Thickness**, MM
3. Rubber **Finish**, diamond or herringbone or plain
4. **Shore Hardness**
5. **Quantity** - Meters or Numbers

Quality Assurance Plan

HIC Rubber Skirting Lagging & Rubber Mat Sheets Testing Parameters

Quality rubber skirting, pulley lagging sheet and rubber mat sheets manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre-manufacture checks and post-manufacture tests as to:

100% Physical checks with respect to dimensions,
100% Chemical checks w.r.t. MOC,
20% Random physical tests

Production Capacity of Rubber Sealing Products

<table>
<thead>
<tr>
<th>Approximate Qty. per annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Skirt Board Rubber</td>
</tr>
<tr>
<td>50,000 Mtrs</td>
</tr>
<tr>
<td>2. Rubber Pulley Lagging</td>
</tr>
<tr>
<td>45,000 numbers</td>
</tr>
<tr>
<td>3. Rubber Sheet, Cork Sheet, Floor Insulation Mat</td>
</tr>
<tr>
<td>1,80,000 kgs.</td>
</tr>
</tbody>
</table>

1. Skirt Board Rubber
www.conveyorskirt.com

2. Rubber Pulley Lagging

3. Rubber Sheet, Cork Sheet, Floor Insulation Mat
www.hicrubbersheets-china.com
www.electricalsafetymat.com
Performance Certificates

Total Quality Management Principles Followed
