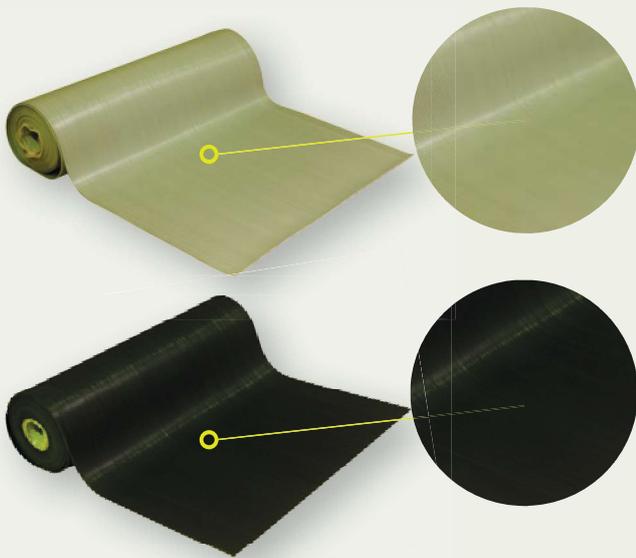
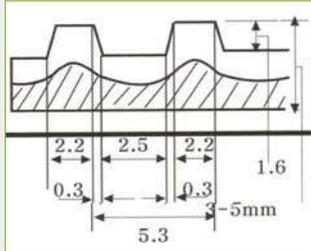


A company opening the future

SAMIK CORPORATION

**AUTOMOBILE INNER TUBES &
RUBBER SHEET & PLYWOOD**

RUBBER SHEET



INSULATING RIBBED RUBBER MATS

In order to protect worker from electric shock, Insulating Ribbed Rubber Mat is laid on the factory floor where high-tension electricity device (electric panels, switchboard) is set up or high-tension electricity is charged (Car, Electric rail). Our Insulating Ribbed Rubber Mat 'SAM-30K' complies with dielectric behavior, physical and chemical Performance stipulated in IEC61111 and ASTM D178.

Size (mm)

910mm ~1200mm [Width]
10M ~20M [Length]

Function

- Protect worker from high-tension electricity device and electric shock
- Compliance with IEC61111 Electrical Insulation standard
- Compliance with ASTM D178 regulations

Thickness (mm)

3.2mm ~ 6.4mm

Applications

- High voltage machinery
- Fuse boxes
- Switch gear
- Control panels

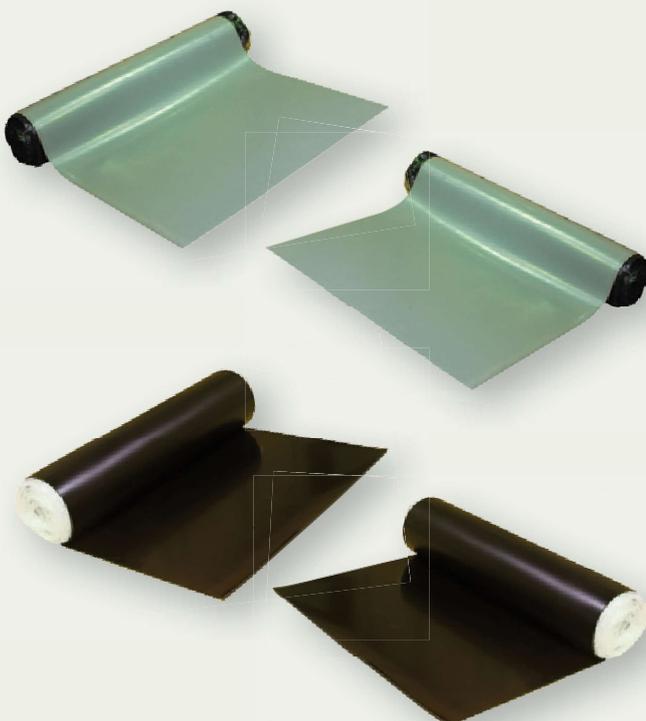
Color

Black, Gray etc

FIRE RETARDANT MATS

Our product compiled with UL94-V0 standards for non-flammability. It also has properties of Oil-resistance, Wear-resistant, Aging-Resistance etc.

It effectively prevents flame from spreading, avoid flame damage to persons and properties.



Size (mm)

600mm ~1200mm [Width]
10M ~30M [Length]

Function

- Complies with UL94: 1996 V-0 standards
- Life protection in fire
- Insertion (optional)

Thickness (mm)

0.5mm ~ 50mm

Applications

- Car's exterior and interior material
- Railway Vehicle's exterior and interior material
- Floor in power plant or other building
- All building's exterior and Interior material that need to be protected from fire.

Color

Black, Green, Gray etc

RUBBER SHEET



RADIATION SHIELDING MATS

This is designed for radiological protection and safety in the nuclear power plants as well as hospitals
Non-Pb radiation shielding mat is newly developed.

Size (mm) 600mm ~1200mm [Width] 10M ~30M [Length]	Function Prevent inadvertent exposure of workers to an excess dose
Thickness (mm) 0.5mm ~ 50mm	Applications <ul style="list-style-type: none"> • Hospital using radiation • Nuclear power plants, etc.
Color Available upon request	

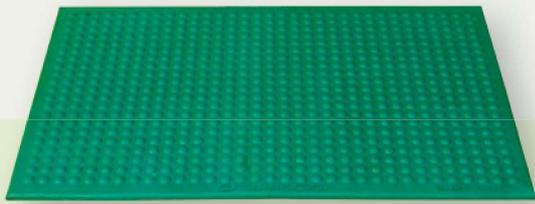
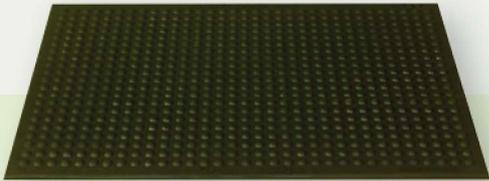
CONDUCTIVE RUBBER MATS

The damage of electrostatic discharge has been very serious in many industries and turned out to be a major cause including damage to parts in semi-conductor production lines, explosion of gunpowder and inflammable vapor, and loss of valuable data by malfunction of computer and medical device. Our conductive rubber mats have been developed in order to prevent the damages caused by electrostatic discharge. They are semi-permanent and provide a variety of color for a wide range of industries.

Size (mm) 600mm ~1200mm [Width] 10M ~30M [Length]	Function <ul style="list-style-type: none"> • Acquired ISO 9001 Certification • Volume resistivity Color layer : $10^7 \sim 9 \Omega \text{cm}$ Black layer : $10^4 \Omega \text{cm}$ • Static Dissipative + Conductive structure
Thickness (mm) 2.0mm ~ 3.0mm	
Type shiny / dull	Applications <ul style="list-style-type: none"> • Semiconductor manufacturing lines • Electrical and electronic equipment production lines • Clean room operation • Electronic switching center • OA laboratories • Chemical laboratories • Hospital etc.
Color Black, Green, Gray etc	

Halogen Free Available Upon Request

RUBBER SHEET



ANTI-FATIGUE RUBBER MATS

Anti-fatigue rubber mats help relieve the stress and reduce the pain in the neck, back, knees and feet when standing for long periods, and also improve productivity.

Additional properties such as Oil-resistance, Flame-resistance, Anti-static etc. could be contained in the product.

Size (mm)

600mm × 900mm

Function

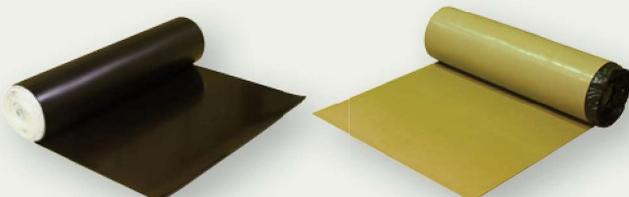
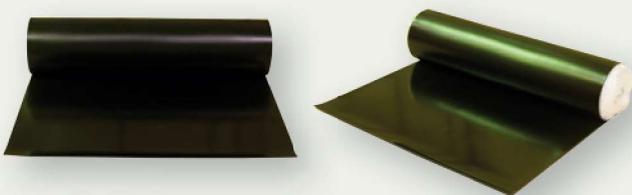
- Absorb shock
- Reduce fatigue
- Prevent slips and falls
- Protect your commodity / floor from damages
- Better working environment

Color

Green, Gray, Blue, Black
[Available upon request]

Applications

- Production lines
- Factory floor
- Workers standing for hours



SPECIAL PURPOSE RUBBER [NEOPURE, NBR, EPDM, PURE GUM]

We can provide rubber sheet with properties of Oil-resistance, Heat-resistance, Weather-resistance, Chemical-resistance which widely used in various industrial fields as gasket, packing, flooring material, support of machine equipment, etc

Size (mm)

910mm × 1200mm [Width]
10M ~ 20M [Length]

Function

- Oil-resistance
- Weather-resistance (Ozone-resistance)
- Heat-resistance
- Chemical-resistance
- Water-resistance

Thickness (mm)

0.6mm or greater

Applications

- Floor mat in industrial settings
- Packing gasket
- Electronic Components and Parts
- Etc.

Color

Green, Gray, Blue, Black
[Available upon request]

Relative Properties of Rubber

	NR	SBR	BR	EPDM	IIR	CR	NBR	T	O	ECO	CSM	FKM	ACM	CM	U
Tensil Strength (gum)	E	P	P	P	F	E	P	P	P	F	G	G-E	P	F	-
Tensil Strength (reinforced)	E	G-E	G	G-E	G	G-E	E	F	F	G	G-E	G-E	F-G	G	G-E
Tear Strength (cold)	G	F-G	G	G	G	G	F	G	F	F	F	F	P	G	G
Tear Strength (hot)	G	F	F	E	F	G	P	P	P	-	-	-	-	-	G
Abrasion Resistance	E	G-E	E	E	F-G	E	E	F	F	G	E	G	F	E	E
Atm ospheric Aging	P	P	P-F	E	G-E	E	E	F	F	G	E	G	F	E	E
Oxidation Resistance	G	G	G	E	G-E	G	F	E	E	VG	E	E	E	E	E
Heat Resistance	G	G	G	G	G-E	G	G	F	E	VG	E	E	G	E	F-G
Low Temperature Flexibility	E	G	E	G	F	F	F	G	E	F-G	F	G	P	G	E
Compression Set	F-G	P-F	G	G	F	P-F	G	P-F	E	G	F	VG	G	VG	G
Impermeability	F	F	P-F	P-F	E	G	E	E	F	E	P	P	P	P	G
Flame Resistance	P	P	P	P	P	E	P	P	F	F-G	G	G	P	G	P
Alkali Resistance	G	G	G	G	VG	G	F	G	F	VG	VG	F	P-F	VG	G
Acid Resistance (dilute)	G	F-G	G	G	E	E	G	G	G	G	E	E	F	VG	G
Acid Resistance (conc)	F-G	F-G	G	G	E	G	F	P	F	F	E	E	F	VG	F
Dielectric Properties	G-E	G	G	E	G-E	P-F	P	G	E	P-G	E	G	F	G-E	G-E
(Animal & Vegetable Oil) Resistance	P-G	P-G	P-G	P	E	G	E	E	G	E	E	E	VG	G	G-E
(Oil & Gasoline)	P	P	P	P	P	G	E	E	F	E	G	E	G	G	E
(Aliphatic Hydrocarbon Solvet)	P	P	P	P	P	G	E	E	G	G	G	E	E	G	G
(Aromatic Hydrocarbons)	P	P	P	P	P	F	F	E	G	G	F-G	E	F	F	P
(Chlorinated Solvents)	P	P	P	P	P	P	P	E	F	-	-	-	-	-	-
(Oxygenated Solvents)	G	G	G	G	G	P	P	G	G	P	P	P	P	P	F

	NR	Natural Rubber	NBR	Acrylonitrile Butadiene Rubber	ACM	Polyacrylate
P = Poor	SBR	Styrene Butadiene Rubber	T	Polysulfide	CM	Chlorinated Polyethylene
F = Fair	BR	Poly Butadiene Rubber	Q	Silicone	U	Polyurethane
G = Good	EPDM	Ethylene Propylene Dine Terpolymer	ECO	Epichlorohydrin		
VG = Very Good	IIR	Isoprene Isobutylene Rubber	CSM	Sulfonated Polyethylene		
E = Excellent	CR	Chloroprene Rubber	FKM	Fluororubber		

Typical Property

Natural Rubber Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB←-%→	ΔEB←-%→		
Color Sheet	Gum	40±5	min 120 / 1600	min 700	0.95 ± 0.05	±10	max - 20	max - 40	70°C × 70h	
	White	60±5	min 70 / 900	min 500	1.45 ± 0.05	±10	max - 25	max - 45		
Black Sheet		60±5	min 150 / 2100	min 650	1.15 ± 0.05	±10	max - 25	max - 40		
SBR Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB←-%→	ΔEB←-%→		
Black Sheet		60±5	min 30 / 400	min 250	1.50 ± 0.05	±10	max - 30	max - 45	70°C × 70h	
NBR Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB ←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB ←-%→	ΔEB ←-%→		
Color Sheet	White	60±5	min 60 / 800	min 450	1.45 ± 0.05	±10	max - 25	max - 35	70°C × 70h	
	Black Sheet	60±5	min 80 / 1100	min 350	1.30 ± 0.05	±10	max - 25	max - 35		
CR Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB←-%→	ΔEB←-%→		
Color Sheet	White	60±5	min 70 / 900	min 450	1.45 ± 0.05	±15	max - 30	max - 50	100°C × 70h	
	Black Sheet	60±5	min 80 / 1100	min 350	1.35 ± 0.05	±15	max - 30	max - 45		
EPDM Rubber Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB←-%→	ΔEB←-%→		
Color Sheet	White	60±5	min 40 / 500	min 250	1.35 ± 0.05	±10	max - 30	max - 50	100°C × 70h	
	Black Sheet	60±5	min 50 / 700	min 250	1.25 ± 0.05	±10	max - 30	max - 45		
FKM Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB←-%→	ΔEB←-%→		
Dark Brown Sheet		75±5	min 85 / 1200	min 250	1.90 ± 0.05	max +8	max - 10	max - 25	200°C × 70h	
Nonflammable Rubber Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB←-%→	ΔEB←-%→		
Black Sheet		60±5	min 80 / 1100	min 350	1.50 ± 0.05	±10	max - 25	max - 40	100°C × 70h	
Wear Resistance Rubber Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB←-%→	ΔEB←-%→		
Black Sheet		60±5	min 110 / 1500	min 350	1.25 ± 0.05	±10	max - 25	max - 40	100°C × 70h	
Butyl Rubber Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB ←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB ←-%→	ΔEB ←-%→		
Black Sheet		60±5	min 80 / 1100	min 500	1.15 ± 0.05	±5	max - 15	max - 25	70°C × 70h	
Conductive Rubber Sheet										
		Basic Property				After Heat Aging			Remark	
		HS ←Shore-A→	TB ←kg/cm ² → / ←lb/in ² →	EB ←-%→	SP.GR	ΔHS ←Shore-A→	ΔTB ←-%→	ΔEB ←-%→		Surface Resistivity ←Ω/S.Q→
Color Layer (Anti-static)		65±5	min 120/1600	min 500	1.20 ± 0.05	±10	max - 20	max - 35	E8±1.0	100°C × 70h
	Black Layer (Conductive)	60±5	min 70/1000	min 250	1.40 ± 0.05	±10	max - 25	max - 40	E4±1.0	

※ Above physical properties are representative and could be changed without notice..



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