

Product Information

WOOJUNG TRB Industrial Products Series Rubber Sheet





Constant challenges, Endless possibilities

WOOJUNG TRB

<http://www.woojungtrb.com>

Product Information

■ Colored Rubber Sheet	1
■ Bag-Making Insert Sheet	2
■ Shoe-Making Rubber Sheet	3
■ Conductive Rubber Sheet	4
■ Rubber Sheet with Fabric Layer	5
■ Rubber Sheet with Embossed Patterns & Fabric Layer	6
■ Industrial Rubber Sheet	7 ~ 8

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Colored Rubber Sheet



Made with colored rubber, this sheet is suitable for various applications, including industrial, interior, and leisure applications.

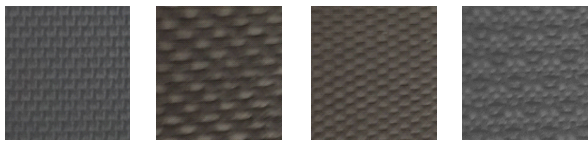
Please contact us for custom colors other than the standard colors.

Standard Specifications

Category	Width (mm)	Thickness (mm)	Length/roll (m)	Weight (kg/roll)	Pattern Availability	Color Designation
No Reinforcement Fabric	1,000	1.0	20.0	25.4	Available	Available
	1,000	2.0	20.0	50.8		
	1,000	3.0	20.0	76.2		
	1,000	4.0	10.0	50.8		
	1,000	5.0	10.0	63.5		
	1,000	6.0	10.0	76.2		

Category	Width (mm)	Thickness (mm)	Length/roll (m)	Weight (kg/roll)	Pattern Availability	Color Designation
Reinforcement Fabric	1,000	2.0	20.0	50.8	Available	Available
	1,000	3.0	20.0	76.2		
	1,000	4.0	10.0	50.8		
	1,000	5.0	10.0	63.5		
	1,000	6.0	10.0	76.2		

Examples of Surface Patterns



WJ-07 HD-003 HD-08 HD-127

Standard Colors



Black (Standard) Gray Green Light Green Blue Olive Drab

Examples of Colored Surface Applications



Standard Colored Top Surface Colored Bottom Surface Both Surfaces Colored

Bag-Making Insert Sheet

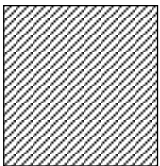


It provides excellent tear resistance with minimal deformation when used as an insert material. It is also used for clothing and accessory applications and is specified by various clothing and accessory manufacturers as a basic material.

Standard Specifications

Width (mm)	Thickness (mm)	Length (m/roll)	Weight (kg/roll)	No. of Plies(P)	Color
1,450	0.65	20.0	21.0	1	Black
1,450	1.0	20.0	30.5		
1,450	1.5	15.0	23.0		
1,450	2.0	10.0	30.5		
1,450	0.65	20.0	21.0		Brown Series
1,450	1.0	20.0	30.5		
1,450	0.65	20.0	21.0		Gray Series
1,450	1.0	20.0	30.5		

Surface Patterns and Color Examples



Pattern Example



Brown Series (Koyote)



Brown Series (Olive Drab)



Gray Series (Stone Gray)



Gray Series (Asphalt Gray)



Gray Series (Air Gray)

※ Please contact us if specifications other than the standard specifications are required.

Applications & Usage Examples

Application Area



Bags

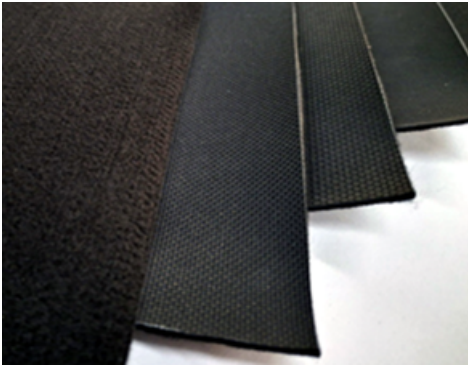


Bellows



Gaskets

Shoe-Making Insert Sheet



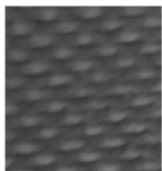
A product made by laminating rubber onto one side of nonwoven fabric and incorporating a surface pattern. It can be used for a variety of applications.

This rubber sheet is mainly used for manufacturing safety shoes and is applied to the reinforcement areas of footwear. It is also used for various bellows, gaskets, and other applications.

Standard Specifications

Width (mm)	Thickness (mm)	Length (m/roll)	Weight (kg/roll)	Patterns No.	Color
1,220	1.4	20.0	28.0	HD-003	Black
1,220	1.4	20.0	28.0	HD-08	
1,220	1.4	20.0	28.0	HD-127	
1,220	1.4	20.0	28.0	WJ-07	
1,220	1.4	20.0	28.0	단면	

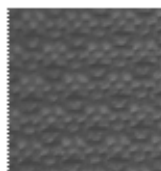
Examples of Patterns



HD-003



HD-08



HD-127



WJ-07



Single-sided

Mainly used in this area of safety shoes.



★ Can also be used for various applications other than safety shoes.

Conductive Rubber Sheet



For workbenches requiring electrostatic control, such as those used for semiconductors and electronic components. Made with heat-resistant NBR rubber, it can be used safely even in work environments exposed to heat. The electrical resistance meets IEC requirements. ($10^6 \leq R_p \leq 10^7 \Omega$)

RoHS2 Compliance

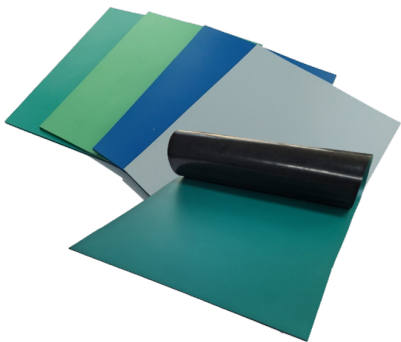
Compliant with the Revised RoHS Directive, RoHS2

* Does not contain substances exceeding the limits specified by RoHS regulations.

What is Revised RoHS?
Four phthalate esters (DEHP, BBP, DBP, and DIBP) were added as restricted substances under the revised RoHS Directive effective July 22, 2019.

Features

- Hybrid structure combining electrostatic-dissipative colored rubber and conductive black rubber.
- Helps prevent the generation and accumulation of static electricity on the surface.
- Can be freely cut to the required size for use.
- Matte surface finish with low reflectivity, reducing eye strain.
- Provides an appropriate level of slip resistance for improved workability.
- Its soft surface helps prevent objects from sliding.
- Maintains stable conductive performance even when humidity and temperature conditions change, with electrical resistance controlled within $10^7 \Omega$.



Standard Specifications

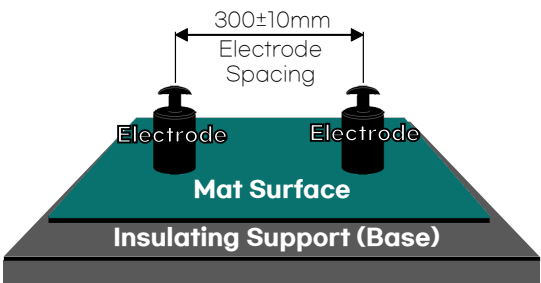
Width (mm)	Thickness (mm)	Length (m/roll)	Weight (kg/roll)	Color	Electrical Resistance
1,000	2.0	10.0	30.0	Green	$10^6 \Omega \leq R_p \leq 10^7 \Omega$
1,000	2.0	10.0	30.0	Light Green	
1,000	2.0	10.0	30.0	Blue	
1,000	2.0	10.0	30.0	Gray	

Layer Structure

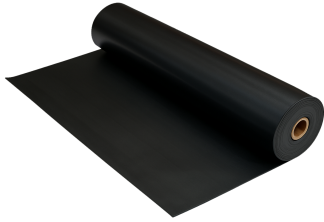
Top Surface Material		Electrostatic-Dissipative Rubber (NBR)	
Bottom Surface Material		Conductive Rubber (SBR)	
Thickness	Surface	0.45mm	
	Back	1.55mm	

Measurement Standards for Electrical Resistance

Ambient Temperature : $23 \pm 2^\circ\text{C}$
Relative Humidity : 40% $\pm$ 5%
Measurement Method : IEC61340-5-1



Rubber Sheet with Fabric Layer



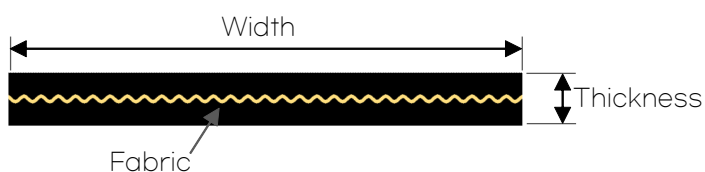
By inserting fabric into conventional rubber sheets, this product provides improved tensile strength and reduced deformation. It also provides excellent durability due to the inserted fabric.

Standard Specifications

Width (mm)	Thickness (mm)	Length (m/roll)	Weight (kg/roll)	No. of Plies (P)	Color	Rubber Grade
1,200	2	20	50.8	1	Black	• General • Abrasion resistant • EPDM • CR • NBR • Flame resistant
1,200	3	20	76.2			
1,200	4	10	50.8			
1,200	5	10	63.5			
1,200	6	10	76.2			

※ Please contact us if specifications other than the standard specifications are required.

Layer Structure



The fabric is inserted into the rubber at the center to improve the tensile strength of the rubber sheet. It also provides excellent durability due to the inserted fabric.

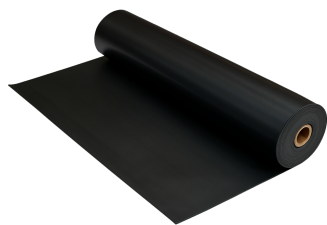


Physical Properties

Property	General	Abrasion resistant	EPDM	CR	NBR	Flame resistant
Tensile Strength (Mpa)	≥7.0	≥14.0	≥7.0	≥7.0	≥12.0	≥5.0
Elongation(%)	≥300	≥400	≥350	≥350	≥350	≥350
Hardness(Shore A)	A65±5	A65±5	A65±5	A65±5	A65±5	A65±5

※ Tensile strength and elongation are measured in accordance with ISO 37, and hardness is measured in accordance with ISO 7619-1.

Rubber Sheet with Embossed Patterns & Fabric Layer



This product features embossed patterns on the top and bottom surfaces of the Rubber Insert Sheet.

Standard Specifications

Width (mm)	Thickness (mm)	Length (m/roll)	Weight (kg/roll)	No. of Plies (P)	Color	Rubber Grade
1,200	2	20	50.8	1	Black	• General • Abrasion resistant • EPDM • CR • NBR • Flame resistant
1,200	3	20	76.2			
1,200	4	10	50.8			
1,200	5	10	63.5			
1,200	6	10	76.2			

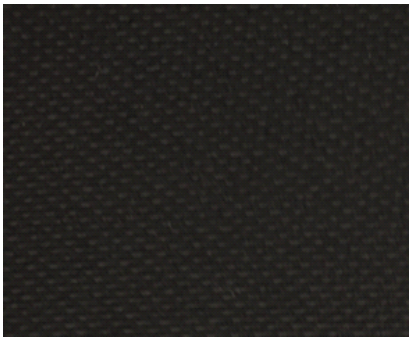
※ Please contact us if specifications other than the standard specifications are required.

Surface Pattern

Pattern Example



Embossing the surface creates a premium finish that cannot be achieved with conventional rubber sheets.

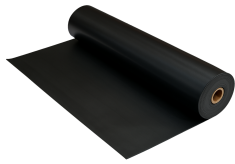


Physical Properties

Property	Gneral	Abrasion resistant	EPDM	CR	NBR	Flame resistant
Tensile Strength (Mpa)	≥7.0	≥14.0	≥7.0	≥7.0	≥12.0	≥5.0
Elongation(%)	≥300	≥400	≥350	≥350	≥350	≥350
Hardness(Shore A)	A65±5	A65±5	A65±5	A65±5	A65±5	A65±5

※ Tensile strength and elongation are measured in accordance with ISO 37, and hardness is measured in accordance with ISO 7619-1.

Industrial Rubber Sheet



Rubber sheets are mainly used for curing, slip prevention, soundproofing, and vibration isolation. They are also used for various purposes, including construction materials, auxiliary materials for products, packing, and machining applications. Materials can be selected according to the application environment.

General

A rubber sheet primarily composed of natural rubber and SBR. It is used for various applications, including electronic components, auxiliary materials for products, and industrial rubber gaskets.



Abrasion-Resistant

A rubber sheet primarily composed of natural rubber and SBR, featuring excellent abrasion resistance. It is suitable for applications where superior durability is required.



EPDM

Suitable for outdoor applications and resistant to sunlight, ozone, and sudden changes in temperature. It provides excellent weather resistance and durability, making it particularly suitable for outdoor use.



CR

Provides excellent oil resistance and maintains good performance under temperature changes. It is used where oil resistance is required, such as in oil, fuel, and other applications. It also provides good weather resistance and ozone resistance.



NBR

A rubber sheet with excellent oil resistance against machinery oil, fuel oil, and similar substances. It can be used for various applications, including packing and gaskets, and provides excellent oil resistance.



Flame-Resistant

A rubber sheet primarily composed of natural rubber (NR) and SBR, with added flame-retardant properties. It provides excellent flame resistance and is suitable for various applications.

Flame resistance is based on UL94 V-0 criteria.



Industrial Rubber Sheet : Standard Specifications

Rubber Grade	Width (mm)	THK. (mm)	Length (m/roll)	Weight (kg/m)	Color	Physical Properties			
						Tensile Strength (Mpa)	Elongation (%)	Hardness (Shore A)	Remark
General	1,000	1	20	25.4	Black	≥ 7.0	≥ 300	A65 $\pm$ 5	-
	1,000	2	20	50.8					
	1,000	3	20	76.2					
	1,000	4	10	50.8					
	1,000	5	10	63.5					
	1,000	6	10	76.2					
Abrasion Resistant	1,000	1	20	24	Black	≥ 14.0	≥ 400	A65 $\pm$ 5	Abrasion Resistance (DIN) $\leq 200\text{mm}^3$
	1,000	2	20	48					
	1,000	3	20	72					
	1,000	4	10	48					
	1,000	5	10	60					
	1,000	6	10	72					
NBR	1,000	2	20	48	Black	≥ 12.0	≥ 350	A65 $\pm$ 5	-
	1,000	3	20	72					
	1,000	4	10	48					
	1,000	5	10	60					
	1,000	6	10	72					
EPDM	1,000	1	20	24	Black	≥ 7.0	≥ 350	A65 $\pm$ 5	-
	1,000	2	20	48					
	1,000	3	20	72					
	1,000	4	10	48					
	1,000	5	10	60					
	1,000	6	10	72					
CR	1,000	1	20	24	Black	≥ 7.0	≥ 350	A65 $\pm$ 5	-
	1,000	2	20	48					
	1,000	3	20	72					
	1,000	4	10	48					
	1,000	5	10	60					
	1,000	6	10	72					
Flame Resistant	1,000	2	20	48	Black	≥ 7.0	≥ 350	A65 $\pm$ 5	UL94V0
	1,000	3	20	72					
	1,000	4	10	48					
	1,000	5	10	60					
	1,000	6	10	72					

※ Tensile strength and elongation are measured in accordance with ISO 37, and hardness is measured in accordance with ISO 7619-1.

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