

Product Catalogue

HIGH PERFORMANCE RUBBER SHEET

Specialized

Reflex 

2022

100% Made in Thailand

EPDM Rubber Sheet

HIGH PERFORMANCE RUBBER SHEET

Reflex



NR Rubber Sheet

Product

Καουτσούκ

Caucho

고무

Cao su

Gomma

Kauchuk

Caoutchouc

ඌවුරු

גומע

Gummi

Sudd

ゴム

Pryž

Radír

גומי

ຍາງ

Резин

rapa

Borracha

रबर

Lastik

гумовий

Reflex

Catalogue

Content

Reflex

01	Welcome Remarks
02	Natural Rubber (NR)
06	Nitrile Butadiene Rubber (NBR)
12	Ethylene Propylene Diene Rubber (EPDM)
18	FDA Grade White CR
20	FDA Grade White EPDM
22	FDA Grade White NBR
24	Neoprene Rubber (CR) and Neoprene Rubber
30	Peroxide Cured (EPDM) Rubber Sheet
32	Peroxide Cured (NBR) Rubber Sheet
34	Fluoro (Viton) Rubber Sheet (FKM-Viton)
37	Research and Development
40	Temperature Resistance of Rubber Materials
41	Rubber Materials Properties

Welcome

HIGH PERFORMANCE RUBBER SHEET

Our high performance rubber sheet, a leading brand in high performance elastomer rubber sheet. With the continuously improving of technologies in today's manufacturing environment, we foreseen the demand for high performance rubber sheet will be increased for these challenging environment. Our manufacturing plants is strategically located in the heart of Thailand, where this strategic location allow us to direct access to pure and high quality virgin raw material as it is surrounded with a vast area of rubber plantation. All our skillful R&D staff are well trained by professional and know how on the equipment operations, our full range of R&D equipment are with latest technologies.

Our Company has Developed a Series of Top Notch series of high performance rubber sheet for today's high challenging environment requirement for rubber sheet.

Starting from automated weighing machine system, we make sure each and every batch of our final product are with consistency. Our Latest Technology

compounding machine and calendaring machine ensure every single finished product are with highest quality. Our rubber product Series of High

Performance rubber Sheet cover a full range of today's environment requirement for oil resistance, chemical resistant, concentrate acid resistant, flame retardant, high abrasion, high temperature resistant, ozone and weather resistant. Our rubber product series of

high performance rubber sheet are widely used in various industry ie: mining, oil and gas, cement silo, gasket, rubber lining, chemical tank, automotive, food processing, power plant and etc.

100% Made in Thailand



MATERIAL SPECIFICATIONS



FEATURES

- Standard Width : 1250mm
- Width Range : 100mm - 2000mm
- Length : 10m
- Thickness : From 1mm to 50mm
- Standard Color : Black, Red, Grey
- Work Temperature : +80 °C



Natural rubber high abrasion rubber sheet further enhanced physical property of natural rubber for abrasion resistant, this high abrasion rubber sheet are excellent used in applications where excessive cuts, abrasion or wear & tear occur. Great impact resistance that used as cushioning resistance in matting applications. It's resistance to chemical make it perfect rubber lining for chemical tank.

Specially designed for applications where high abrasion resistance is required, compounded from premium natural rubber for better abrasion, impact and corrosion resistance. Pure natural rubber exhibits high strength, elasticity, excellent cut and tear resistance, resulting in outstanding performance in heavy wear and abrasion environments like the mining & quarry industries.

Advantage

- Superior abrasion resistance
- Excellent resistance to impact, cut and tear
- Outstanding tensile strength
- High resilience

Applications

- Tank lining
- Slurry handling
- Pipe lining
- Pump Liner
- Chute lining
- Valve liner
- Belting
- Hydrocyclones liner
- Skirt board
- Pulley cover



NATURAL RUBBER (NR)

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	0.97	g/cm ³
Hardness	ASTM D2240	37 +/-5	Shore A
Tensile Strength	ASTM D-412	25	MPa
Elongation	ASTM D-412	800	%
Tear Strength	ASTM D-624	45	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	30	%

WORKING TEMPERATURE

In Air	-40 °C	+70 °C
In Oil		-
In Water		+80 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Excellent	Excellent	Excellent	Poor	Unsuitable	Poor



Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

Very good mechanical and technical characteristics



MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	0.98	g/cm ³
Hardness	ASTM D2240	38 +/-5	Shore A
Tensile Strength	ASTM D-412	24	MPa
Elongation	ASTM D-412	750	%
Tear Strength	ASTM D-624	40	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	30	%

WORKING TEMPERATURE			
In Air	-40 °C	+70 °C	
In Oil		-	
In Water		+80 °C	

MAIN CHARACTERISTICS					
ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Excellent	Excellent	Excellent	Poor	Unsuitable	Poor

Note:

- ☞ All colors available.
- ☞ Cloth insertion, nylon insertion available.
- ☞ Cloth impression finish available.
- ☞ Specification and size on the customer's request.
- ☞ Test methods accord with ISO standard
- ☞ New product formula can be designed by request



Very good mechanical and technical characteristics



NATURAL RUBBER (NR)

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.05	g/cm ³
Hardness	ASTM D2240	60 +/-5	Shore A
Tensile Strength	ASTM D-412	18	MPa
Elongation	ASTM D-412	600	%
Tear Strength	ASTM D-624	50	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	35	%

WORKING TEMPERATURE

In Air	-40 °C	+70 °C
In Oil		-
In Water		+70 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Excellent	Excellent	Excellent	Poor	Unsuitable	Poor



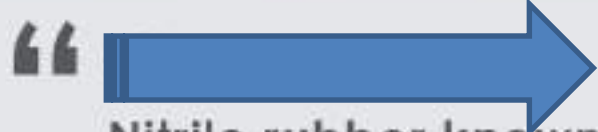
Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

Very good mechanical and technical characteristics



MATERIAL SPECIFICATIONS



Nitrile rubber known as NBR, Buna-N and acrylonitrile butadiene rubber is a synthetic rubber copolymer elastomer. NBR rubber is widely used in automotive and aeronautical industry to make fuel and oil seals, self-sealing fuel tanks lining. NBR's ability to withstand a range of temperatures from -20 to +110 Celsius makes it an ideal material for aeronautical applications.

Reflex NBR rubber sheet is a nitrile base rubber sheet, providing excellent resistance to petroleum oils as well as mineral and vegetable oils. NBR rubber material is used in applications involving not only oil and fuel resistance but also those applications requiring resistance to heat, abrasion, water and gas permeability. It is resistant to weathering, sunlight and ozone. From oil rigs to bowling alleys, nitrile rubber can be the right material for your applications.

”

Advantage

- Excellent oil resistant
- Good resistance to heat and aging
- Good impermeability to gases
- Good abrasion resistance

Applications

- Carburetor and fuel pump diaphragms
- Chemical container lining
- Seal and gasket
- Aircraft hoses



FEATURES

- Standard Width : 1000mm
- Width Range : 100mm - 2000mm 10mm
- Length : 10m
- Thickness : From 1mm to 50mm
- Standard Color : Black
- Work Temperature : +110 °C



NITRILE BUTADIENE RUBBER

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.26	g/cm ³
Hardness	ASTM D2240	60 +/-5	Shore A
Tensile Strength	ASTM D-412	13	MPa
Elongation	ASTM D-412	350	%
Tear Strength	ASTM D-624	30	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	20	%

WORKING TEMPERATURE

In Air	-40 °C	+125 °C
In Oil		+100 °C
In Water		+100 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Good	Poor	Poor	Good	Fair



Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

Good oil and greases resistance



NITRILE BUTADIENE RUBBER (NBR)

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.45	g/cm ³
Hardness	ASTM D2240	65 +/-5	Shore A
Tensile Strength	ASTM D-412	5	MPa
Elongation	ASTM D-412	250	%
Tear Strength	ASTM D-624	17	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%




WORKING TEMPERATURE

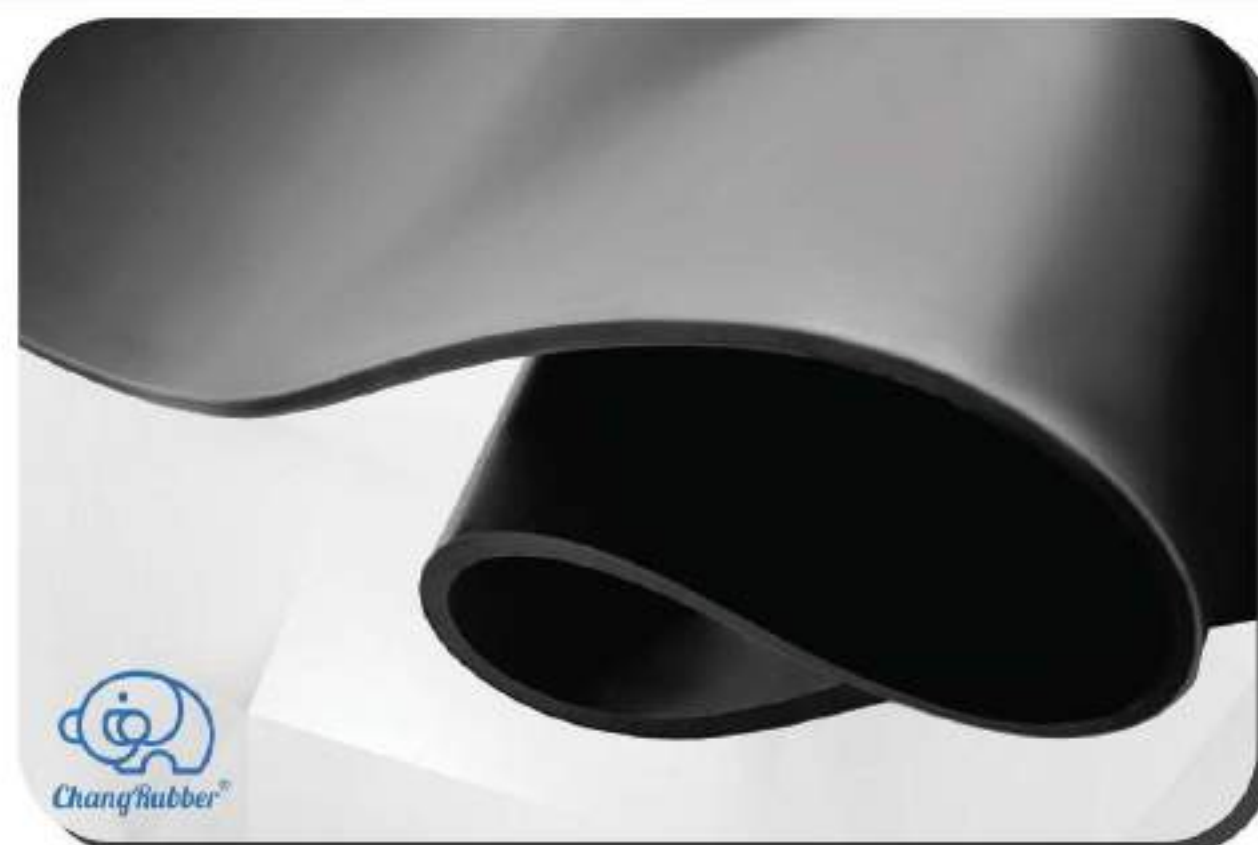
In Air	-40 °C	+120 °C
In Oil		+100 °C
In Water		+100 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Good	Fair

Note:

-  All colors available.
-  Cloth insertion, nylon insertion available.
-  Cloth impression finish available.
-  Specification and size on the customer's request.
-  Test methods accord with ISO standard
-  New product formula can be designed by request



Good oil and greases resistance



NITRILE BUTADIENE RUBBER

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.45	g/cm ³
Hardness	ASTM D2240	50 +/-5	Shore A
Tensile Strength	ASTM D-412	5	MPa
Elongation	ASTM D-412	250	%
Tear Strength	ASTM D-624	15	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%

WORKING TEMPERATURE

In Air	-40 °C	+120 °C
In Oil		+100 °C
In Water		+100 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Good	Fair



Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

Good oil and greases resistance



NITRILE BUTADIENE RUBBER (NBR)

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.45	g/cm ³
Hardness	ASTM D2240	65 +/-5	Shore A
Tensile Strength	ASTM D-412	6	MPa
Elongation	ASTM D-412	250	%
Tear Strength	ASTM D-624	20	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%







WORKING TEMPERATURE

In Air	-40 °C	+125 °C
In Oil		+100 °C
In Water		+100 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Good	Poor	Poor	Good	Fair

Note:

-  All colors available.
-  Cloth insertion, nylon insertion available.
-  Cloth impression finish available.
-  Specification and size on the customer's request.
-  Test methods accord with ISO standard
-  New product formula can be designed by request



Good oil and greases resistance



NITRILE BUTADIENE RUBBER

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.45	g/cm ³
Hardness	ASTM D2240	80 +/-5	Shore A
Tensile Strength	ASTM D-412	5	MPa
Elongation	ASTM D-412	250	%
Tear Strength	ASTM D-624	18	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%

WORKING TEMPERATURE

In Air	-40 °C	+120 °C
In Oil		+100 °C
In Water		+100 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Good	Fair



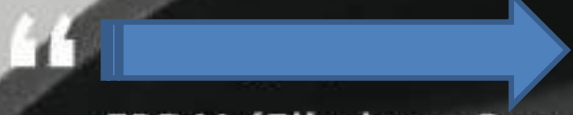
Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

Good oil and greases resistance



MATERIAL SPECIFICATIONS



EPDM (Ethylene Propylene Diene monomer) rubber is a type of synthetic rubber, this elastomer is widely use in most of the outdoor application and for chemical and high temperature resistant application. EPDM also exhibits outstanding resistance to Ozone, Steam, and also an electrical insulator. EPDM rubber is widely use as roofing membranes, since it does not pollute the run off rain water, this EPDM rubber sheet is also use in rainwater harvesting. EPDM rubber sheets are also use as geomembranes, rubber mechanical goods, impact modification, seals for solar panel, hose vibrators and pond liners.

Reflex EPDM rubber sheet is resistant to aging, water, abrasion, UV and ozone, which makes it perfect material to use under exposed environment. They are highly recommended at areas where surface is exposed to weather, sunlight, heat, ozone or gasses. EPDM rubber sheet is also ideal for use in water and is often considered the material of choice for potable water applications.

”

Advantage

- Superior resistance to water and steam
- Highly resistive from sunlight, ozone and UV radiation
- Very good flexibility at low temperatures

Applications

- Window seals
- Automobile beading
- Rubber beading, pads & profiles
- Man-way gaskets
- Low pressure pipe seals
- Weather strips



FEATURES

- Standard Width : 1000mm
- Width Range : 100mm - 2000mm 10m
- Length : 10m
- Thickness : From 1mm to 50mm
- Standard Color : Black
- Work Temperature : +120 °C



ETHYLENE PROPYLENE DIENE RUBBER (EPDM)

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.15	g/cm ³
Hardness	ASTM D2240	65 +/-5	Shore A
Tensile Strength	ASTM D-412	14	MPa
Elongation	ASTM D-412	400	%
Tear Strength	ASTM D-624	35	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	20	%

WORKING TEMPERATURE

In Air	-30 °C	+150 °C
In Oil		-
In Water		+150 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Good	Poor	Poor	Unsuitable	Good



Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

**Resistant to weathering and ozone,
as well as to many diluted
acids and weak leaches**



MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.35	g/cm ³
Hardness	ASTM D2240	65 +/-5	Shore A
Tensile Strength	ASTM D-412	6	MPa
Elongation	ASTM D-412	250	%
Tear Strength	ASTM D-624	18	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%




WORKING TEMPERATURE

In Air	-30 °C	+90 °C
In Oil		-
In Water		+90 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Unsuitable	Good

Note:

-  All colors available.
-  Cloth insertion, nylon insertion available.
-  Cloth impression finish available.
-  Specification and size on the customer's request.
-  Test methods accord with ISO standard
-  New product formula can be designed by request



Resistant to weathering and ozone,
as well as to many diluted
acids and weak leaches



ETHYLENE PROPYLENE DIENE RUBBER (EPDM)

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.30	g/cm ³
Hardness	ASTM D2240	65 +/-5	Shore A
Tensile Strength	ASTM D-412	8	MPa
Elongation	ASTM D-412	300	%
Tear Strength	ASTM D-624	25	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%

WORKING TEMPERATURE

In Air	-30 °C	+120 °C
In Oil		-
In Water		+120 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Unsuitable	Good



Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

**Resistant to weathering and ozone,
as well as to many diluted
acids and weak leaches**



ETHYLENE PROPYLENE DIENE RUBBER (EPDM)

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.35	g/cm ³
Hardness	ASTM D2240	50 +/-5	Shore A
Tensile Strength	ASTM D-412	6	MPa
Elongation	ASTM D-412	250	%
Tear Strength	ASTM D-624	18	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%

WORKING TEMPERATURE

In Air	-30 °C	+90 °C
In Oil		-
In Water		+90 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Unsuitable	Good

Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request



Resistant to weathering and ozone,
as well as to many diluted
acids and weak leaches



ETHYLENE PROPYLENE DIENE RUBBER (EPDM)

Reflex

MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.40	g/cm ³
Hardness	ASTM D2240	80 +/-5	Shore A
Tensile Strength	ASTM D-412	6	MPa
Elongation	ASTM D-412	225	%
Tear Strength	ASTM D-624	25	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	40	%

WORKING TEMPERATURE

In Air	-30 °C	+120 °C
In Oil		-
In Water		+120 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Unsuitable	Good



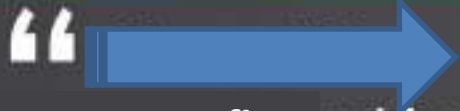
Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

**Resistant to weathering and ozone,
as well as to many diluted
acids and weak leaches**



MATERIAL SPECIFICATIONS



Reflex rubber sheet is made from FDA approved material. At Reflex we follow strictly FDA rules and guidelines to ensure that all our good grade rubber sheet does not contain any prohibited additives or pigments. Our comprehensive manufacturing process has led us to develop a non toxic sheet with high strength, elasticity and abrasion resistance for food/ bakery industry, whilst fully compliant with strict food quality protocols. We offer food grade products in NBR, EPDM, CR and NR

”



Advantage

- None toxic
- Excellent resistance to impact, cut and tear
- Outstanding tensile strength
- High resilience

Applications

- Food processing
- Food packaging
- Bakery industry
- Gasket and other various type of food grade seals
- Pharmaceuticals and cosmetics industry



FEATURES

- Standard Width : 1000mm
- Width Range : 100mm - 2000mm 10m
- Length : 10m
- Thickness : From 1mm to 20mm
- Standard Color : White
- Work Temperature : +100 °C



MATERIAL SPECIFICATIONS

SPECIFICATION	TEST METHOD	TEST RESULT	UNIT
Specific Gravity	ASTM D297	1.45	g/cm ³
Hardness	ASTM D2240	65 +/-5	Shore A
Tensile Strength	ASTM D-412	5	MPa
Elongation	ASTM D-412	250	%
Tear Strength	ASTM D-624	18	kgf/cm
Compression Set (22 Hours at 70 °C)	ASTM D-395	-	%

WORKING TEMPERATURE

In Air	-20 °C	+110 °C
In Oil		-
In Water		+110 °C

MAIN CHARACTERISTICS

ELASTICITY	COMPRESSION	ABRASION	FLAME	FUELS	OZONE
Good	Fair	Poor	Poor	Unsuitable	Good



Note:

- All colors available.
- Cloth insertion, nylon insertion available.
- Cloth impression finish available.
- Specification and size on the customer's request.
- Test methods accord with ISO standard
- New product formula can be designed by request

Application for food processing
and tool accessories



MATERIAL SPECIFICATIONS



Our rubber sheet is made from FDA approved material. Our Company follows strictly FDA rules and guidelines to ensure that all our good grade rubber sheet does not contain any prohibited additives or pigments. Our comprehensive manufacturing process has led us to develop a non toxic sheet with high strength, elasticity and abrasion resistance for food/ bakery industry, whilst fully compliant with strict food quality protocols. We offer food grade products in NBR, EPDM, CR and NR

”

Advantage

- None toxic
- Excellent resistance to impact, cut and tear
- Outstanding tensile strength
- High resilience

Applications

- Food processing
- Food packaging
- Bakery industry
- Gasket and other various type of food grade seals
- Pharmaceuticals and cosmetics industry



FEATURES

- Standard Width : 1000mm
- Width Range : 100mm - 2000mm 10m
- Length : 10m
- Thickness : From 1mm to 20mm
- Standard Color : White
- Work Temperature : +100 °C

