

# FUNCTIONAL RUBBER SHEETS

## GOLD PRENE

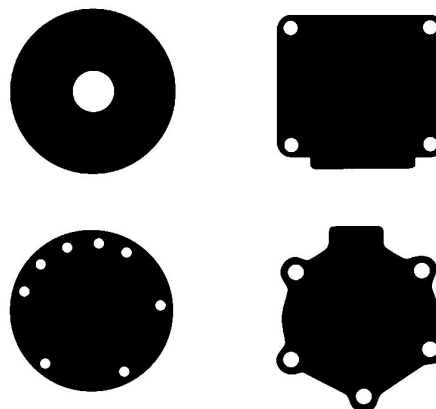
### Introduction

GOLD PRENE is a thin rubberized sheet with a base fabric coated with rubber on both sides for industrial use. (Fabric is the base material)

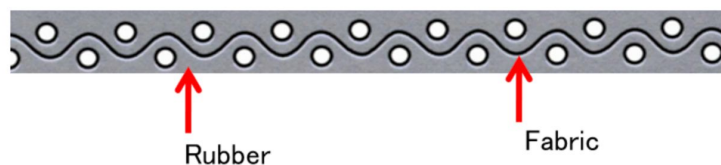
This product was developed to overcome the low tensile and tear strength that are common in thin rubbers.

Combining the materials of rubber and fabric allowed us to realize additional performances of heat resistance and oil resistance.

This product is available as extra-long rolls.



### Rubber Structure



### Types and Physical Properties

Product Name	Thickness mm	Width mm	Rubber	Base Fabric	Tensile Strength KN/m	Elongation %	Operating temperature range
NN030	0.30±0.05	900	NBR	Nylon	15	30~40	-40~+100°C
NN050	0.50±0.05	900	NBR	Nylon	29	30~40	-40~+100°C
NN100	1.00±0.1	900	NBR	Nylon	44	30~40	-40~+100°C
NN125	1.25±0.1	900	NBR	Nylon	44	30~40	-40~+100°C
CN030	0.30±0.05	1000	CR	Nylon	15	30~40	-40~+100°C
FX030	0.30±0.05	900	Fluoro rubber	Heat-resistant nylon	15	30~40	-30~+240°C
FX050	0.50±0.05	850	Fluoro rubber	Heat-resistant nylon	24	30~40	-30~+240°C

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## Common Applications

1. Industrial diaphragms for the automobile industry (e.g., fuel pumps and carburetors)
2. Diaphragms for industrial gas (e.g., gas meters and gas water heaters)
3. Diaphragms for automatic controlling component
4. Diaphragms for air conditioning equipment
5. Automobile engine covers
6. Packing for bearing seals
7. Various bellows and ducts
8. Protective clothes (e.g., safety aprons and space suits)
9. Gasoline storage tanks
10. Seals against pollution-causing gases such as sulfurous acid gas (e.g., seals for smoke ducts)
11. Electronics and components for office automation devices
12. Other various packings, gaskets, and cushions for presses

## Reference: The rubber's chemical resistance

Category	Chemical name	Test Conditions		NBR	CR	Fluoro rubber
		Temp. °C	Concentration %			
	Water	100		○	○	○
Organic acid	Acetic acid	50	(10)	△	△	○
		RT	(100)	×	×	×
	Hydrochloric acid	RT	(20)	○	○	◎
		RT	(37)	△	△	◎
	Sulfuric acid	50	(30)	○	○	◎
		RT	(96)	×	×	◎
Inorganic acid	Nitric acid	50	(96)	×	×	○
		RT	Oleum	-	-	△
	Fluorine	RT	(10)	×	△	◎
		50	(10)	×	×	◎
	Phosphoric acid	RT	(61)	×	×	○
		RT	Fuming nitric acid	-	-	△
Inorganic base	Caustic soda	RT	(56)	×	○	○
		RT	(86)	○	○	○
Mineral salts	Ammonia water	RT	(30)	○	×	△
		90	(10)	○	×	×
	Common salts	RT	(5)	○	○	○
		70	(30)	○	○	○
	Sodium carbonate	70	(10)	○	○	△
		50	(1)	△	△	◎
Bleach	Sodium chlorite	RT	(5)	△	○	◎
		50	(5)	×	△	◎
	Sodium hypochlorite	90	(5)	×	×	◎
		50	(5)	×	×	◎

◎: Recommended ○: Sufficiently usable △: Not recommended ×: Not suitable —: Not tested RT: Room temperature

GOLD PRENE® is a registered trademark for an industrial rubber fabric manufactured by KINYOSHA CO., LTD.



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