

# Light damping sheet for a metal roof

# Sound Proof

"Sound Proof" consists of a combination of special resin and a nonwoven shock-absorbing material.

When using "Sound Proof", it makes a living space comfortable.

Specific examples are as follows

**Reduces the sound of the rain**

**Prevents dew condensation**

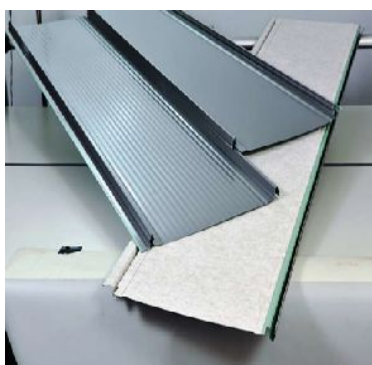
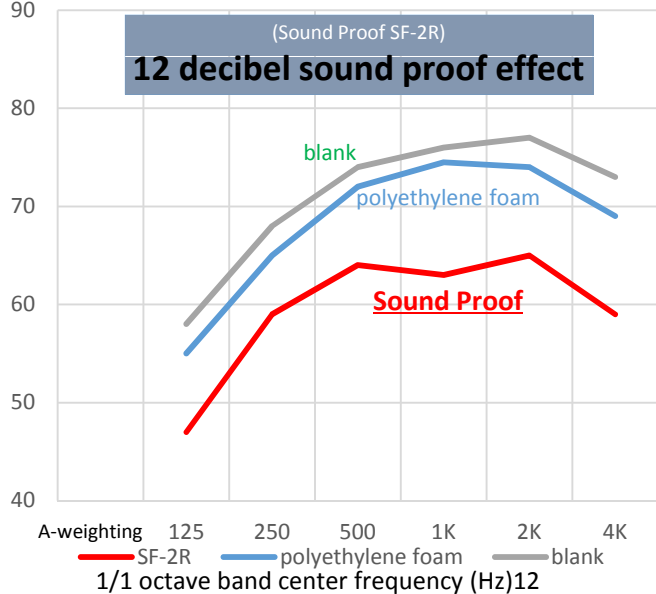
**Expects insulation effect**

Damping • Heat Insulation SF-2R/SF-4D



10cm wide Sound Proof tape is also available.

■ Artificial rain test rainfall:150mm/hr height:5.5m  
Sound pressure(dB)





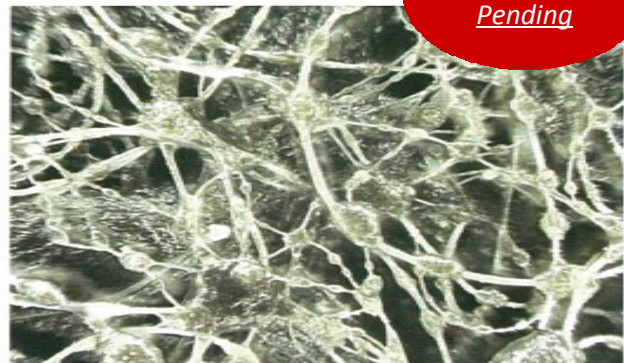
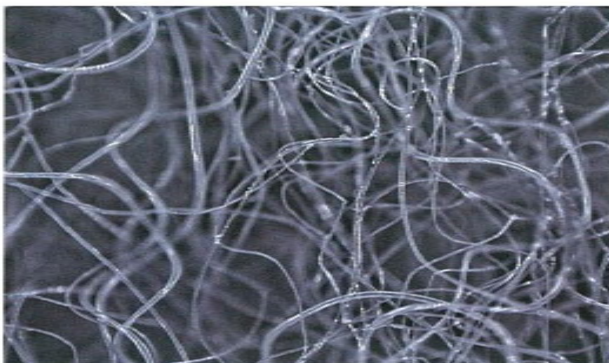
### ■ Product specification

Item	SF-2R	SF-4D	Remark
Appearance	Ivory color	Ivory color	
Nonwoven weight per area(g/m <sup>2</sup> )	120	430	Weight of equipment
Impregnation(g/m <sup>2</sup> )	480	350	Damping resin
Product weight(g/m <sup>2</sup> )	600	780	
Thickness(mm)	2±0.5	4±0.5	
Specification	10cm wide tape is also available.	Heat insulated	

### ■ Thermal conductivity

Article name	Thermal conductivity W/(m · k)
Sound proof(SF-2R)	0.034
Glass wool 40K	0.034
Other company's insulating material	0.035

### ■ The enlarged photo (200 magnifications)



*Patent Pending*

Before processing

⇒ Damping resin impregnated processing ⇒

After processing(film effect)

※Notice: This technical information is based on the results of our reliability test. However, it is not guaranteed that performances listed can always be achieved.

 **高圧ガス工業株式会社**  
化成事業本部

**KOATSU GAS KOGYO CO., LTD.**  
**OVERSEAS DIVISION**

本社 〒530-8411 大阪市北区中崎西2丁目4番12号 梅田センタービル28階  
TEL. 06 (7711) 2579 FAX. 06 (7711) 3366  
[URL] <http://www.koatsugas.co.jp>  
[E-mail] [kaseihin@koatsugas.co.jp](mailto:kaseihin@koatsugas.co.jp)

Umeda Center Bldg., 2-4-12, Nakazaki-nishi, Kita-ku, Osaka, Japan  
Phone: +81-6-7711-2580 FAX: +81-6-7711-3355  
E-mail: [kaigai@koatsugas.co.jp](mailto:kaigai@koatsugas.co.jp)

# Shock Absorbing Film

# Sound Proof Z

"Sound Proof Z" is a film that contains the special filler in elastomer. (Patent pending)

"Sound Proof Z" has an excellent Shock-absorbing.

"Sound Proof Z" was developed for thin LCD parts such as smart phone, display screen of tablet and so on.

- Shock Absorption
- Light Flexibility
- Little Tack



## Applications

Multifunction machine



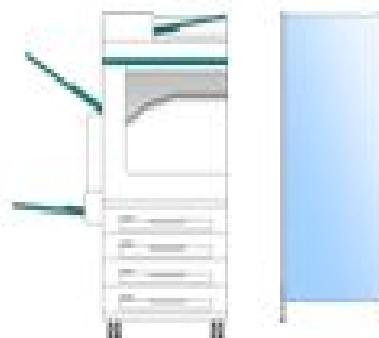
PC



Smart phone / Tablet



Others



## Physical property of Sound Proof Z

### Basic property

Color Phase	Transparent color
Tensile strength	1.0MPa
Stretch	500%
Specific gravity	0.98

- Colorable by adding coloring agent.
  - Tensile strength, Stretch
- Test machine: Strograph R1  
 Test speed: 200mm/min  
 Ambient atmosphere: 23°C  
 Test piece: JIS No2. Dumbbell  
 The thickness of test piece: 200μm

### Iron ball drop test result

Item/thickness	100 μ m	200 μ m	300 μ m
Diameter			
10mm	3~5	1~2	0~1

Test method:  
 A given diameter iron balls were dropped on the acryl sheet(100 × 100mm, 30mm thick) from 100mm height then the highest rebounding(unit:mm) was measured by sight.

※Notice: This technical information is based on the results of our reliability test.  
 However, it is not guaranteed that performances listed can always be achieved.



**KOATSU GAS KOGYO CO., LTD.**  
**OVERSEAS DIVISION**

本 社 〒530-8411 大阪市北区中崎西2丁目4番12号 梅田センタービル28階  
 TEL. 06(7711)2579 FAX. 06(7711)3366  
 [URL] <http://www.koatsugas.co.jp>  
 [E-mail] [kaseihin@koatsugas.co.jp](mailto:kaseihin@koatsugas.co.jp)

Umeda Center Bldg., 2-4-12, Nakazaki-nishi, Kita-ku, Osaka, Japan  
 Phone: +81-6-7711-2580 FAX: +81-6-7711-3355  
 E-mail: [kaigai@koatsugas.co.jp](mailto:kaigai@koatsugas.co.jp)