

Sponge Tapes

Sponge Tapes of 500, 1,000, 1,500, or 2,000 mm long.

| Type | Material | Hardness | Color |
|--------|--|------------------|--------|
| SGNPTA | EPDM Synthetic Rubber Sponge | Asker C8 | Black |
| SGNATA | Silicon Rubber Sponge | Asker C35 | Orange |
| EPATA | EPDM Synthetic Rubber Foam (EPT Sealer®) | Asker C1 or Less | Black |

| A Dimension Tolerance | | L Dimension Tolerance | |
|-----------------------|------|-----------------------|------------|
| SGNPTA | ±1.5 | SGNPTA | 500 1000 |
| SGNATA | ±2.5 | SGNATA | ±3 ±5 |
| EPATA | | EPATA | |
| | | 500, 1000 | 1500, 2000 |
| | | +14 | +15 |
| | | - 6 | - 8 |

ⓘ Characteristic Data P2618.
 ⓘ The adhesive's heat resistance limit is 80° C.

| Part Number | Type | T | Selection | |
|------------------|------|----|----------------------------|-----------------------------|
| | | | A | L |
| SGNPTA SGNATA | | 3 | 10 15 20 30 50 | 500 1000 |
| | | 5 | | |
| | | 10 | | |
| EPATA | | 3 | 10 15 20 30 50 | 500 1000 1500 2000 |
| | | 5 | | |
| | | 10 | | |

Part Number Example: SGNPTA3 - 10 - 1000

Features of EPATA

This product is made of a semi-closed cell foam, available for compression in the condition of low stress. After compression, it can be made into independent air bubble. This product is a high performance sealer that has the capability of filling gaps to shut out heat, water and sound.

Characteristic Values

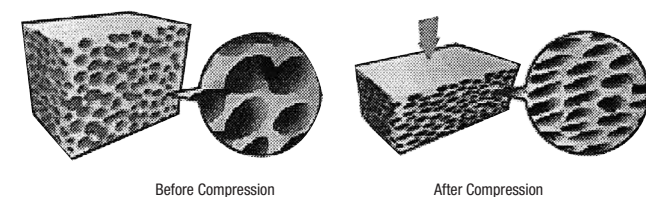
| Measurement Item | Unit | EPATA |
|----------------------|--------------------|------------------|
| Specific Gravity | — | 0.095 |
| Tensile Strength | kg/cm ² | 0.90 |
| Elongation | % | 430 |
| Compression Hardness | 25% | 0.02 |
| | 50% | 0.05 |
| Air Bubble | — | Semi-closed Cell |

| Compression Rate (%) | EPATA |
|----------------------|------------|
| 50 | Proor |
| 60 | Acceptable |
| 70 | Good |
| 80 | Good |

Good: No leakage of water after 30 mins.
 Acceptable: Leakage of water is seen within 30 mins.
 Proor: Leakage of water is seen within 10 mins.

ⓘ Testing method conforms to JIS K 6767.

Semi-Closed Cell Structure (EPATA)



Features of Open Cell Type (SGNPTA & SGNATA)

Bubbles are separated from each other, so air and water cannot pass through the material. It also excels in shock absorption.



Round Cord / Round Rubber String Ring

Sealing Elastomer

It is adaptable to a variety of uses, including gaskets for sealing.

| Type | Material | Hardness | Color |
|-------|------------------------|-----------|--------------|
| RBGEL | Viscoelastic Elastomer | Asker F65 | Light Yellow |

ⓘ Operating Temperature Range -10~70°C
 ⓘ Gel surface is coated with fluoride powder to prevent sticking.
 ⓘ It is delivered in a roll.
 ⓘ It can be cut with adhesive side up with a utility knife, etc.

| Part Number | D | L (mm) |
|------------------------|----|--------|
| RBGEL | 2 | 500 |
| Viscoelastic Elastomer | 5 | 1000 |
| | 10 | 1500 |

Part Number Example: RBGEL5 - 500

Viscoelastic Elastomer

Viscoelastic elastomer is an extremely soft gel which has an Asker F hardness. Superior in mechanical strength and excellent in durability. A major characteristic is the three-dimensional slow recovery, the function to recover after compression slowly and in multiple directions. It is adaptable to a variety of uses, including gaskets for sealing.

Elasticity of Viscoelastic Elastomer

A very soft and elastic material, as shown in the picture (Elongation Rate: more than 2,000%). Due to its excellent shape flexibility, it easily conforms to complex shapes. Cutting surface has self-adhesion.



Comparison of Characteristic Values

| Item | Viscoelastic Elastomer | Nitrile Rubber | Silicon Rubber |
|-------------------------------|------------------------|----------------|----------------|
| Specific Gravity | 0.9 | 1.6 | 1.2 |
| Hardness | 65 (Asker F) | 70 (Shore A) | 50 (Shore A) |
| Tensile Strength (Mpa) | 0.17 | 12.7 | 8.8 |
| Elongation (%) | >2000 | 370 | 330 |
| Maximum Operating Temperature | 70 | 90 | 200 |
| Low Temp. Resistance | -10 | -10 | -70 |

Comparison of Chemical Resistance

| | Viscoelastic Elastomer | Nitrile Rubber | Silicon Rubber |
|--------------------|------------------------|-----------------|-----------------|
| Gasoline Light Oil | Poor | Excellent | Acceptable-Good |
| Water | Excellent | Excellent | Acceptable |
| Strong Acid | Excellent | Good | Acceptable |
| Strong Alkali | Excellent | Good | Good |
| Ether | Poor | Poor-Acceptable | Acceptable |

ⓘ Do not use in places where product may come in contact with solvent.

Round Rubber String Rings

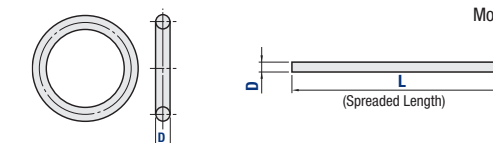
ⓘ Not compliant with JIS Standard O ring.
 ⓘ Avoid using as a belt.

| Type | Material | Hardness | Color |
|-------|----------------------|-----------|-------------|
| RBWNR | Nitrile Rubber (NBR) | Shore A70 | Black |
| RBWSR | Silicon Rubber (SI) | Shore A53 | Milky White |
| RBWFR | Fluoro Rubber (FPM) | Shore A76 | Black |

Vulcanized bonded product

Rubber string is cut at a desired length and makes it to ring by vulcanized bonding. Bonded part is polished by sandpaper.

Most suitable for use as general-purpose gasket.



| Part Number | D | 1 mm Increment L Unfolded Length |
|----------------|----|----------------------------------|
| RBWNR Nitrile | 2 | 300-4000 |
| RBWSR Silicon | 3 | |
| RBWFR Fluorine | 4 | |
| | 5 | |
| | 10 | |

Precision Standards

| L Dimension Tolerance | | | |
|-----------------------|------------------|------------------|------------------|
| 1,000 mm or Less | 2,000 mm or Less | 3,000 mm or Less | 4,000 mm or Less |
| 0 | 0 | 0 | 0 |
| -1.0 | -2.0 | -3.0 | -4.0 |

Part Number Example: RBWNR2 - 525
 RBWFR10 - 3301

| Part Number | D | D Dimension Tolerance |
|----------------------|----|-----------------------|
| RBWNR Nitrile Rubber | 2 | ±0.2 |
| | 3 | ±0.3 |
| | 4 | ±0.4 |
| | 5 | ±0.4 |
| | 10 | ±0.6 |
| RBWSR Silicon Rubber | 2 | ±0.1 |
| | 3 | ±0.1 |
| | 4 | ±0.15 |
| | 5 | ±0.15 |
| | 10 | ±0.3 |
| RBWFR Fluoro Rubber | 2 | ±0.2 |
| | 3 | ±0.2 |
| | 4 | ±0.3 |
| | 5 | ±0.3 |
| | 10 | ±0.5 |