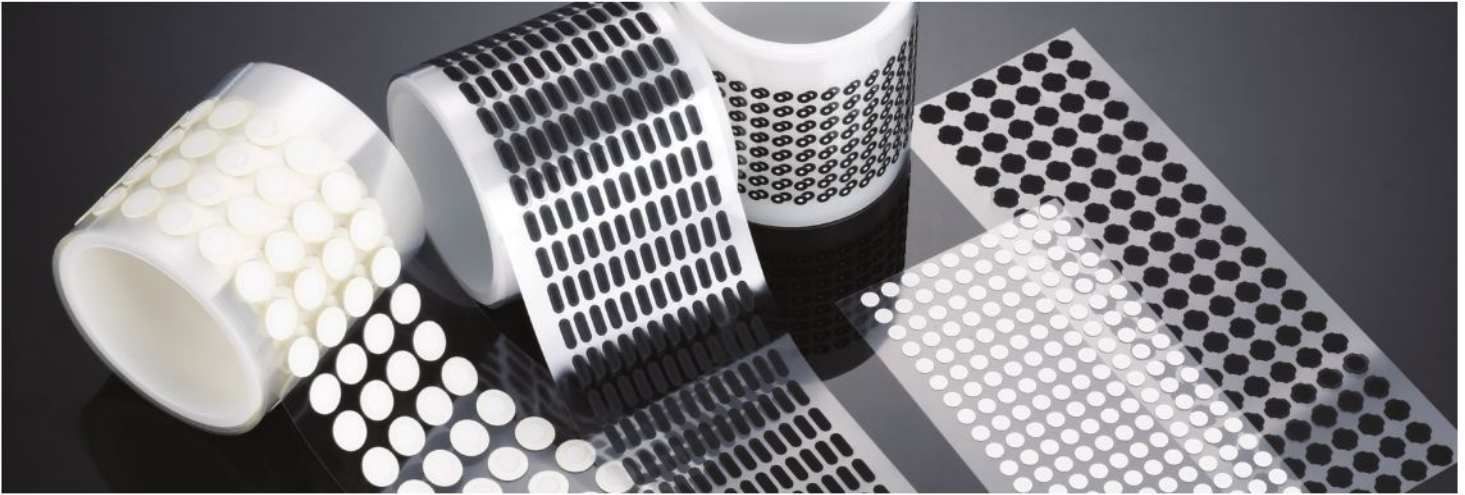




ShieldZone  
Venting & Protection

# Adhesive Acoustic Vents



Shieldzone Technology utilizes advanced acoustic membrane technology today allowing design engineers to develop the greatest dust and water protection, while maintaining acoustically transparent performance.

Though the acoustic vents are offered in more than 20 standard sizes, these vents are build-on-demand according to each customer's specific requirements. Choose from five ratings: IP4X, IP5X, IP6X, IP67 and IP68, membrane type, shape and size. Adhesives are offered for unique application surfaces and harsh environments. Acoustic vents are sold in roll, sheet or strip form based on our customer's requirements. Choose from sample selections below or contact our engineering specialists for additional options.

## Features

- Minimum transmission loss and distortion to maintain acoustically transparent performance
- Provide pressure equalization at the same time  
Flexible acoustic membrane selection from IP4X to IP68  
Optimized structure for best protection of the membrane
- Thin, light and suitable for limited space Roll, sheet or strip available for manual or automatic installation
- 100% final part inspection for highest quality

## Applications

Waterproof mobile phones  
Wearable devices  
Bluetooth handsets  
Two-way radios  
Industrial scanners  
Waterproof tablets and notebooks  
Smart home appliances  
Waterproof cameras

## Product Information \*

| Characteristics                    | AVB-1                  | AV-2                   | AVO-2                  |
|------------------------------------|------------------------|------------------------|------------------------|
| Reference thickness (um)           | 10                     | 10                     | 13                     |
| IP rating 2mm ID                   | IP67,IP68 <sup>A</sup> | IP67,IP68 <sup>A</sup> | IP67,IP68 <sup>A</sup> |
| WEP(60s)                           | 60kPa                  | 50kPa                  | 80kPa                  |
| Adhesive type                      | Acrylic                | Acrylic                | Acrylic                |
| Membrane type                      | ePTFE                  | ePTFE                  | ePTFE                  |
| Membrane characteristic            | Hydrophobic            | Hydrophobic            | Oleophobic             |
| Membrane color                     | Gray                   | White                  | White                  |
| Transmission loss (@1mmID) (@1kHz) | 0.5                    | 0.5                    | 1.0                    |
| Part orientatinal                  | Internal mount         | Internal mount         | Internal mount         |
| Adhesive Temperature Range         | -40 to 120°C           | -40 to 120°C           | -40 to 120°C           |
| Rohs Compliance                    | Yes                    | Yes                    | Yes                    |

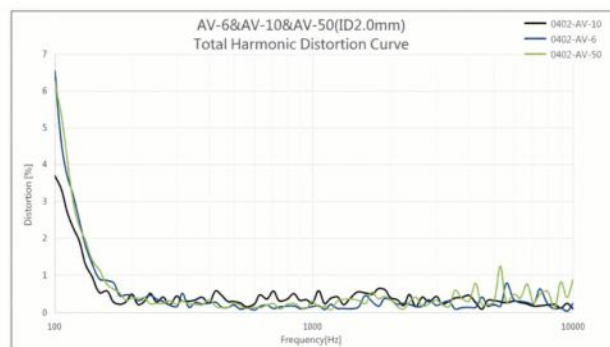
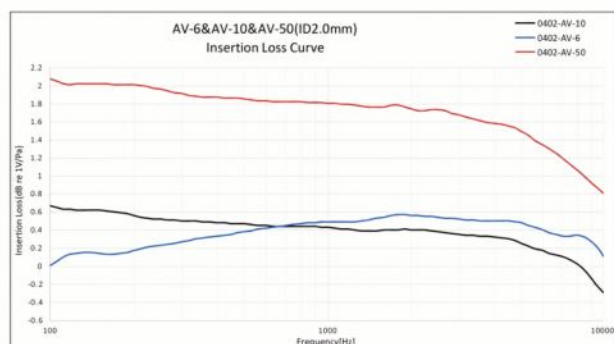
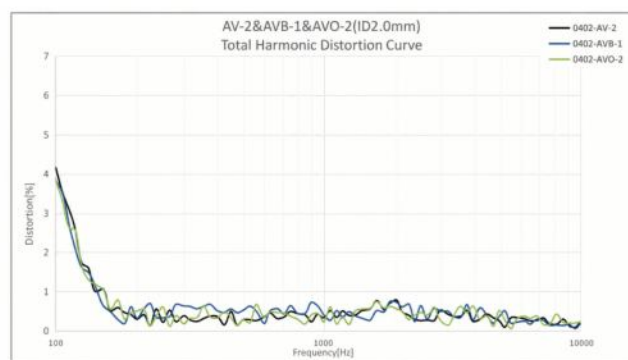
| Characteristics                    | AV-6                   | AV-10                  | AV-50                  |
|------------------------------------|------------------------|------------------------|------------------------|
| Reference thickness (um)           | 9                      | 8                      | 10                     |
| IP rating 2mm ID                   | IP67,IP68 <sup>B</sup> | IP67,IP68 <sup>C</sup> | IP67,IP68 <sup>D</sup> |
| WEP(60s)                           | 200kPa                 | 300kPa                 | > 550kPa               |
| Adhesive type                      | Acrylic                | Acrylic                | Acrylic                |
| Membrane type                      | ePTFE                  | ePTFE                  | ePTFE                  |
| Membrane characteristic            | Hydrophobic            | Hydrophobic            | Hydrophobic            |
| Membrane color                     | White                  | White                  | White                  |
| Transmission loss (@1mmID) (@1kHz) | 1.0                    | 1.0                    | 3.0                    |
| Part orientatinal                  | Internal mount         | Internal mount         | Internal mount         |
| Adhesive Temperature Range         | -40 to 120°C           | -40 to 120°C           | -40 to 120°C           |
| Rohs Compliance                    | Yes                    | Yes                    | Yes                    |

A : 2 meter water immersion for 1 hour

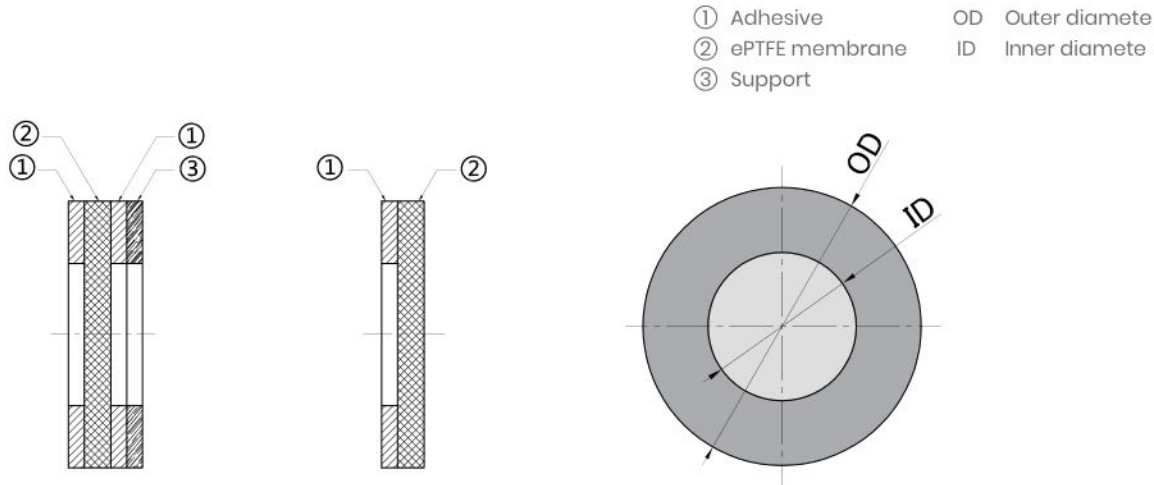
B : 4 meter water immersion for 1 hour

C : 6 meter water immersion for 1 hour

D : 50 meter water immersion for 10 minutes

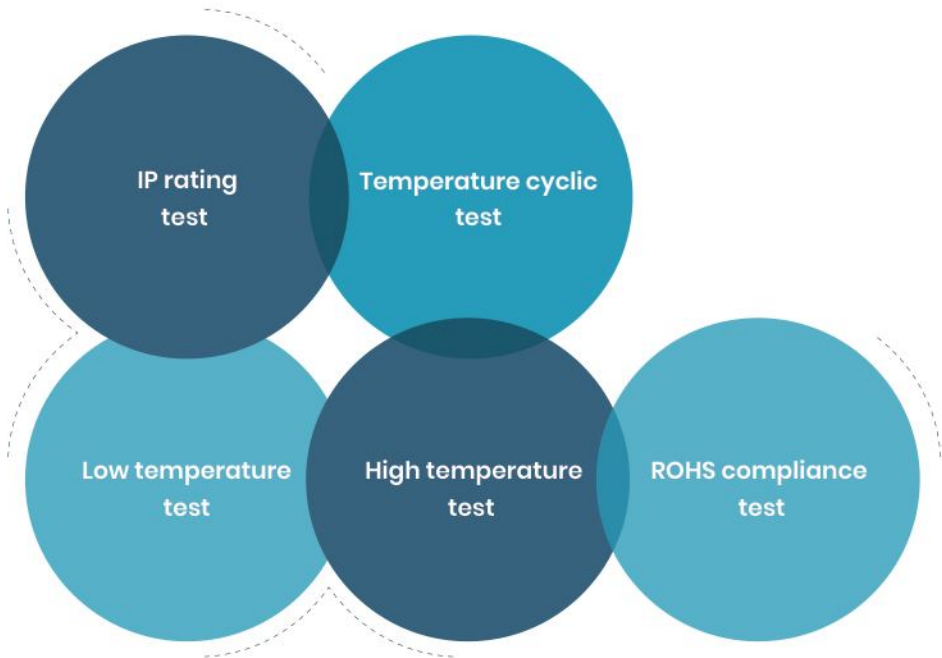


# Sample Standard Sizes \*



| Part Number | OD    | ID    |
|-------------|-------|-------|
| 0401D       | 4mm   | 1.5mm |
| 0402C       | 4mm   | 2mm   |
| 0502        | 5mm   | 2mm   |
| 0602        | 6mm   | 2mm   |
| 0603        | 6mm   | 3mm   |
| 0703A       | 7.6mm | 3.3mm |
| 0804        | 8mm   | 4mm   |
| 1005        | 10mm  | 5.5mm |
| 1408        | 14mm  | 8mm   |
| 2920        | 29mm  | 20mm  |

## Testing Reports



\* Shieldzone Technology offers build-on-demand parts specified to our customer’s requirements. Please contact with one of our engineering specialists for additional membrane options.