

# roVa™ Guard

## Aerogel Insulation Padding

**roVa™ Guard** is a breathable insulation padding using JIOS AeroVa® silica aerogel powder as the main performance ingredient. It exhibits excellent thermal insulation, sound dampening, and hydrophobic properties in super light profile and can be utilized in a variety of sectors including construction, plant, and automotive industries.

### Technical Features

<b>Base Material</b>	PET Non-woven mat
<b>Color</b>	White
<b>Dimensions</b>	1,000mm x 2,000mm x 10mm
<b>Thickness</b>	5 ~ 10mm
<b>Density</b>	0.6~0.8g/cm <sup>3</sup>
<b>Thermal Conductivity</b>	0.028 ~ 0.030W/m · k
<b>Operating Temp.</b>	-100 ~ 120°C
<b>Water Resistance</b>	Super Hydrophobic
<b>Sound Absorption</b>	0.8 @ 2000Hz (8mm)

### Application

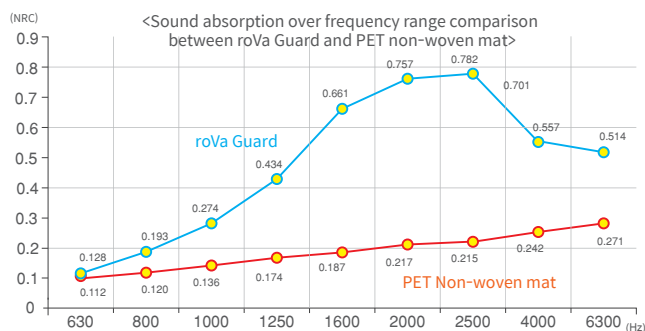
- Insulate building walls and floors
- Save energy cost by raising energy efficiency
- Lower sound and vibration between rooms and floors in buildings and from mechanical equipment
- Protect building and materials from water or moisture
- Insulate pipes and tanks operating in low temperature
- Improve system insulation by strengthening thermal insulation and hydrophobicity when used in conjunction with other materials

### Easy Usage

- Convenient to install in places with tight space or of complex shape
- Easy to cut into pieces to fit various configurations
- Easy to attach using adhesives or as standalone

### Performance

- Energy savings through excellent thermal insulation properties, utilizing the low thermal conductivity of aerogel (0.017 ~ 0.022mW/mk)
- Superior sound absorption properties against regular PET non-woven mat material



Herz(Hz)	630	800	1000	1250	1600	2000	2500	4000	6300
roVa Guard	0.128	0.193	0.274	0.434	0.661	0.757	0.782	0.557	0.514
PET Non-woven Mat	0.112	0.120	0.136	0.174	0.187	0.217	0.215	0.242	0.271

\* Tested by: JIOS Aerogel, 2017



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