



**Alfa Acoustics**  
Silence through Science

## Acoustic Material Database – dB Base

**Polyurethane**

Thickness [mm]	40
Density [Kg/m <sup>3</sup> ]	29
Airflow resistivity [Ns/m <sup>4</sup> ]	5359
Porosity	0.99
Tortuosity	1.08
Viscous characteristic length (10-6 m)	119
Thermal characteristic length (10-6 m)	235
Young's modulus [Pa]	
Poisson's ratio	
Loss factor	

☒ Automotive  
☐ Ground transportation  
☐ Aeronautic  
☐ Naval  
☐ Noise barriers  
☐ Civil

Picture Graphic

Close form

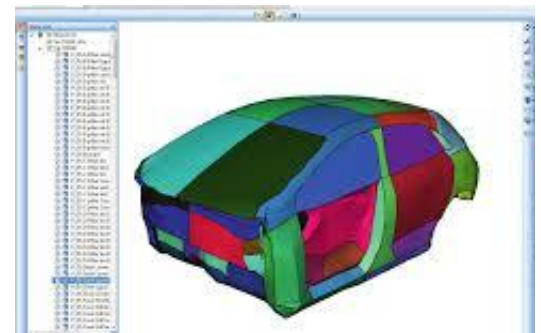
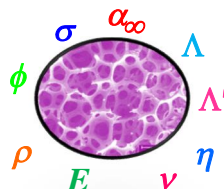
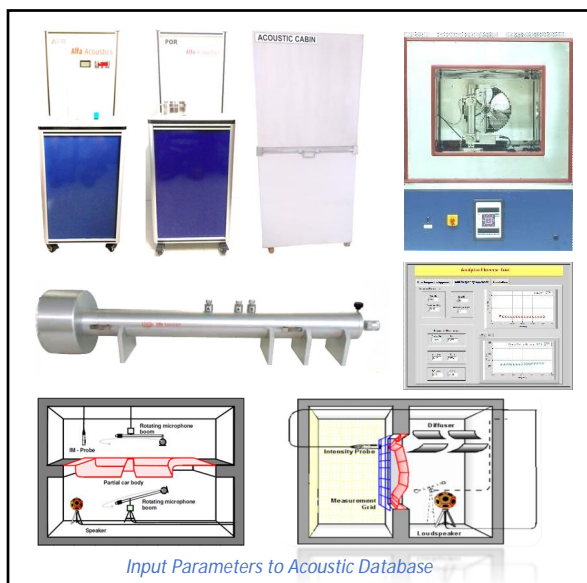
Alfa Acoustics - Acoustic material database is an unique tool for storing acoustic material properties for future usage. This software stores all physical, mechanical and acoustic properties of acoustic materials along with its picture.

The data stored in this software can be easily retrieved, compared and exported for later use in software's for simulated purpose or generating test reports.

The software can store following parameters also known as Biot Parameters

- Porosity
- Airflow Resistivity
- Tortuosity
- Viscous Characteristics Length (VCL)
- Thermal Characteristics Length (TCL)
- Density
- Youngs Modulus
- Poisson Ratio
- Loss factor
- Sound Absorption Coefficient (SAC)
- Sound transmission Loss (STL)
- Insertion Loss (IL)

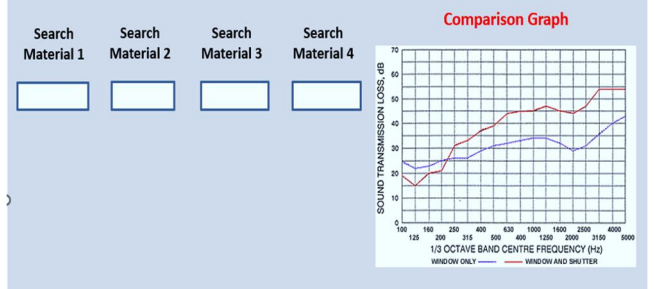
along with GSM and thickness and pictures of materials



### Key features

- Its main features comprise : a contextual search tool
- A material properties selection tool and addition tool
- Technical datasheets or commercial brochures
- Visualization of e.g. sound absorption and transmission spectra
- Customized for Automotive, Architectural, Whitegoods businesses

### Acoustic Performance



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