Alfa Acoustics
Silence through Science

Foams and Fibers

Sound Absorption Coefficient

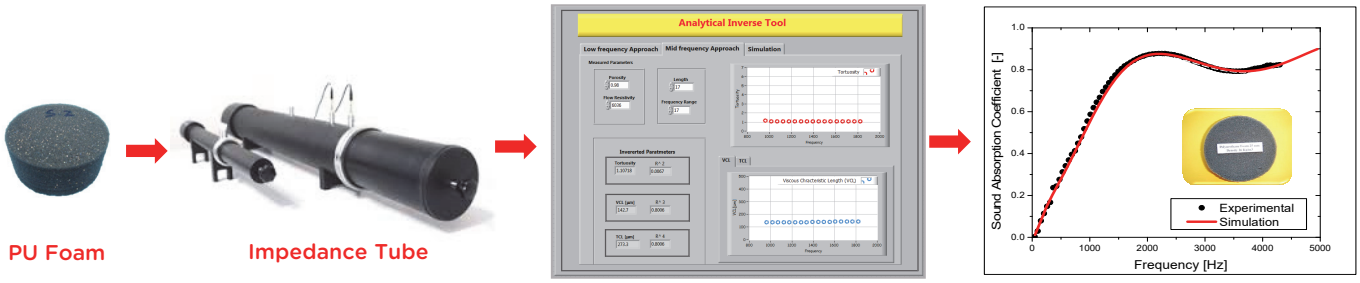
It is defined as the ratio of the sound energy reflected by a surface to the sound energy incident upon that surface.

Test Standards

- ISO 10534 - Determination of sound absorption coefficient and impedance in impedance tube-Transfer function method
- ASTM E1050 - Standard test method for impedance and absorption of acoustical materials using a tube, two microphones and a digital frequency analysis system
- ISO 354 - Measurement of a sound absorption coefficient in a reverberation room
- ASTM C423 - Standard test method for sound absorption and sound absorption coefficients by reverberation chamber method

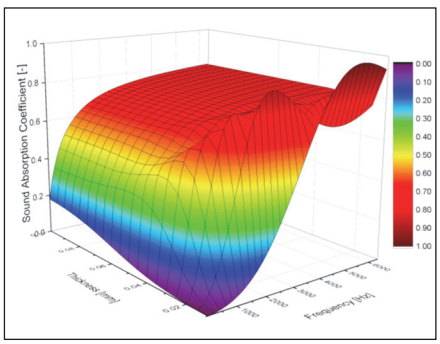
Acoustic Material Characterization and Simulation

- Porosity Measurement by Porosity test rig
- Airflow Resistivity Measurement by Flow resistivity rig based on ASTM C522
- Tortuosity and characteristics lengths by indirect method and Inverse characterization
- Design and simulation of multilayer treatments for Genset and Industrial Applications
- Effect of Films / Foils / Resistive layers with Foams/Fibers/Felts

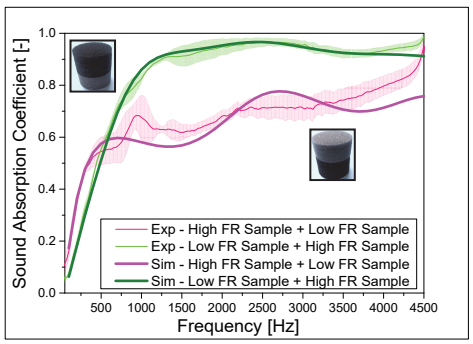


PU Foam

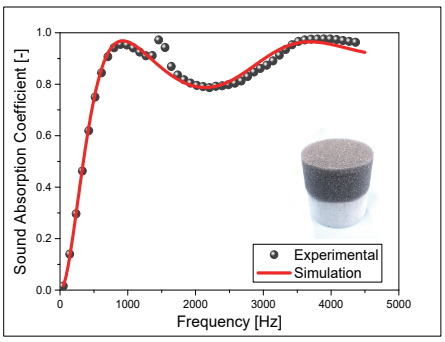
Impedance Tube



Multilayer Sound Absorption Simulation



Variation in Airflow Resistivity of Same Density Foam



Simulation and Validation for multilayer combination

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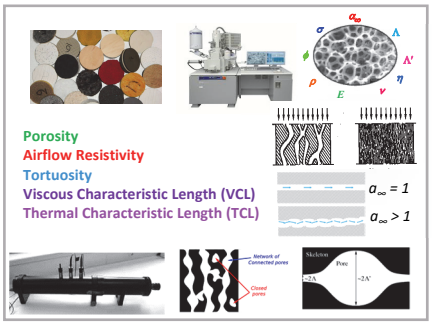
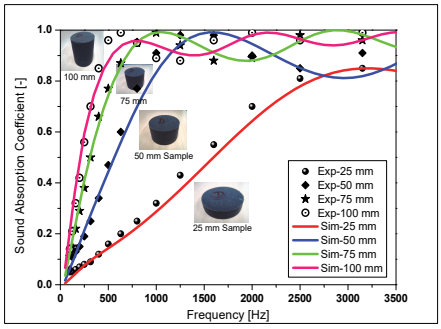
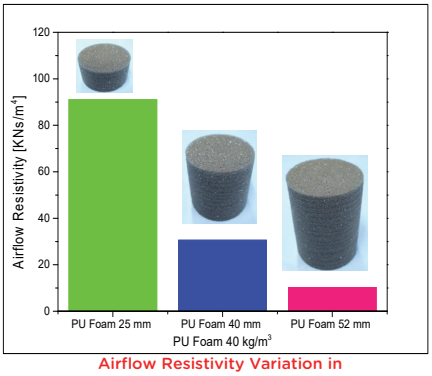


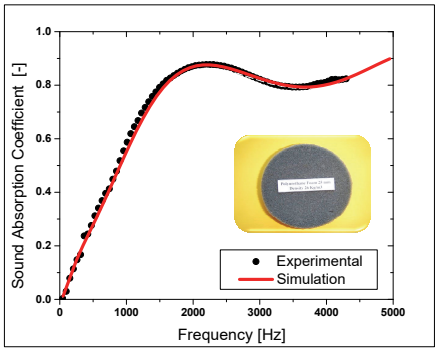
Macroscopic Characterization



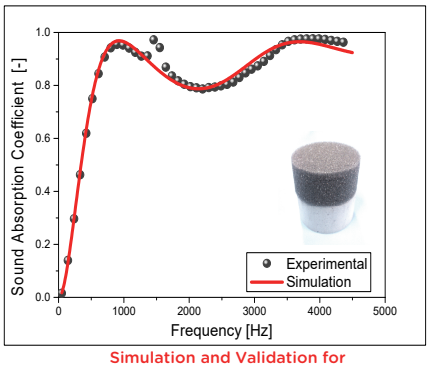
Sound Absorption Simulation-Multiple Thickness



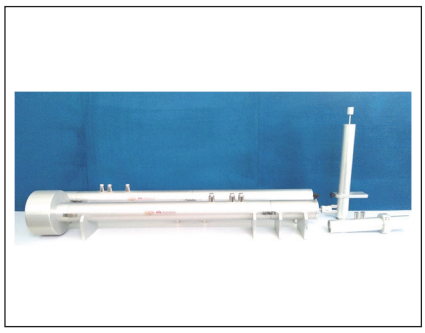
Airflow Resistivity Variation in same density foam



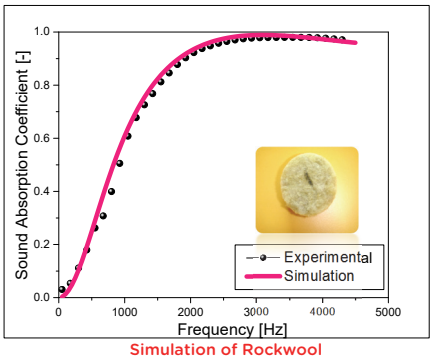
Simulation and Validation of PU Foam



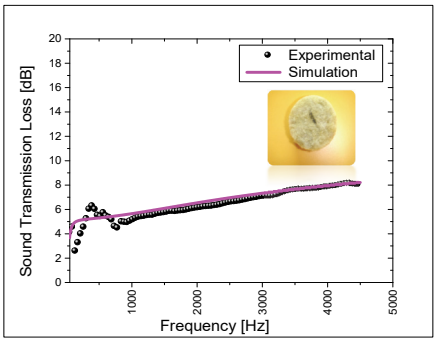
Simulation and Validation for Composite PU Foam



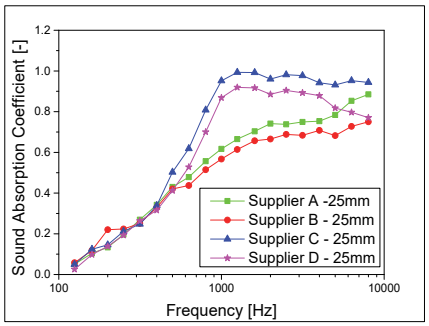
Impedance Tube ASTM E1050 / ISO 10534-2 / ASTM E2611



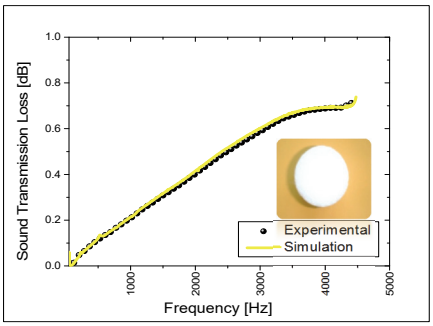
Simulation of Rockwool Sound Absorption



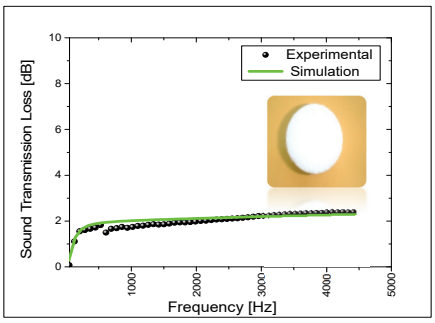
Simulation and Validation for Composite PU Foam



Sound Absorption-Same Density, Same Thickness



Simulation of Polyester Felt Sound Absorption



Simulation of Polyester Felt Sound Transmission Loss

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