Make & Model: Bruel & Kjaer, Denmark & 2716-c

Objective: Determine the sound absorption & transmission of the given material.

Description:

Noise control materials can be tested in terms of their sound absorption and transmission properties in a plane wave tube to guarantee highly repeatable test conditions. This provides information of materials’ acoustic properties for validating and calibrating computational methods used to predict the acoustic performance of multi-layer systems.

The test is required for:

Automobile carpet / acoustic noise absorption materials.

To verify compliance with specifications

To provide input information to analytical and numerical tools (for example, FEM, BEM, SEA) for the prediction of sound field in acoustic cavities (for example, vehicle cabin noise, aircraft cabin noise)

Specifications required for test samples:

Comprehensive solution for evaluating both sound absorption and sound transmission properties
Determination of normal incidence absorption coefficient and normal specific impedance based on ISO 10534-2 and ASTM E1050 and ASTM E2611.
Amount of material: 0.5 square metre.
Sample size: 29.5 mm dia & 99.5 mm dia respectively.
Duration of testing: Immediate

Beneficiary Industries:

Automotive, air craft, constructions, marine etc.,