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演題名	Sound Insulation Analysis of Porous Media using Urethane and Rubber
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内容	Enhancement is necessary in the acoustic insulation performance with respect to the high-frequency interior noise of automobiles. In this study, to improve the sound insulation in the overall acoustic insulation of a rubber sheet laminated to urethane, we used a waffle shape on the urethane surface and then examined the resulting acoustic change. We performed the test using a simple sound insulation performance measurement device and compared its results with the vibration sound analysis results obtained using a finite element model. We used the Biot model for the urethane using individually calculated parameters. In addition, with respect to the sound and vibration inputs, we calculated the sound performance changes resulting from differences in the waffle shape (rib width, rib interval). As a result, in a certain frequency band, we confirmed that the sound insulation performance had improved.