ROGERS CORPORATION

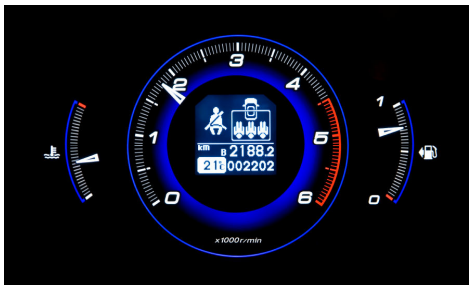
High Performance Foams Division

Automotive Head Up Display

PORON® Urethane Foams Protect Head Up Display Units from Vibration

THE CHALLENGE

The function of a Head Up Display pad is to prevent movement caused by vibration.



Head Up Display (HUD) units project transparent images of automotive controls on the windshield of an automobile, allowing the driver to maintain visual focus straight ahead. In the past, this technology was mainly used in military aircraft, however, today HUD units can be found in automotives and commercial aircraft.

The HUD module, which projects the transparent images, is located in the dashboard of an automobile. PORON® Urethane pads are attached to both sides of the HUD module housing in order to isolate vibrations transferred through the car body and the automobile dashboard parts. These pads effectively isolate road vibration and prevent distortion of the projected image.

ROGERS MATERIAL SOLUTIONS

The following PORON Urethane material can be used as vibration isolation pads in HUD units.

PORON 4701-30 Grade

SOLUTION FEATURES AND BENEFITS

Excellent vibration isolation performance

Superior compression set resistance enables long-term performance

PORON Urethanes compensate for surface unevenness

Functional across a wide temperature range (-40°C to 90°C)

The graph below shows the Isolation Efficiency of various PORON Urethane grades.