



Cellular Urethane Foams

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PORON[®] urethane used to produce gasket for Sport Utility Vehicle Taillights

PORON urethane materials were chosen as a notable solution for a sealing application in a sport utility vehicle. Recently, a leading automotive manufacturer approached Marian Rubber, a PORON Materials Unit Sales Associate, about helping to develop a gasket for the taillights of a new model.



One of the problems facing the automotive design team involved mounting the newly designed taillights on a sport utility vehicle. These taillights were much larger than previous models, and the engineers were having difficulties securing them with the standard screws.

Working alongside the automotive engineers, Marian Rubber helped design a gasket from PORON 4701-40, which became a design specification

for the vehicle. This gasket made the screw tightening considerably easier. Furthermore, the uniform density and thickness profiles of the PORON urethanes allowed the gasket design to consistently succeed. The properties of the PORON gasket allowed the taillight to be mounted without any hardware changes or deformation of the components.

PORON urethane was specifically chosen because, "It is the latest design of cellular foam in the world", according to Ken Moll of Marian Rubber. Competitors' materials, he added, "have been around since before World War II," and did not offer the advantages that PORON urethanes could. PORON urethanes have no plasticizers to migrate and very low outgassing, less than 1% according to ASTM E595 test methods. Most important, however, PORON urethanes offer

extremely low fogging, which passed the required automotive SAE-J1756 testing. An added bonus was the standard color black, which they preferred over other color choices.

Moll also added that this gasket might be further improved by changing to the PORON urethane low porosity material, which he said, “significantly outperforms most closed cell materials.”

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