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BISCO® Silicones

Application Bulletin

HVAC ACCESS PANEL SEAL IN MASS TRANSIT RAILCARS

Problem: A major HVAC manufacturer for the mass transit industry responsible for heating, cooling and pressurization of railcars, needed a material that would meet the most stringent flame, smoke and toxicity standards demanded by the industry. They needed a material to be used as an access panel water seal. The company had used closed cell sponge rubber in the past but knew that it failed to meet the low flame, smoke and toxicity requirements for the project.

Solution: Rogers Corporation BISCO® Silicones HT-800 Closed Cell Silicone Foam. This material meets the most stringent flame, smoke and toxicity standards. Confident that they had chosen the right material for the job, the company could move on to other important design considerations.

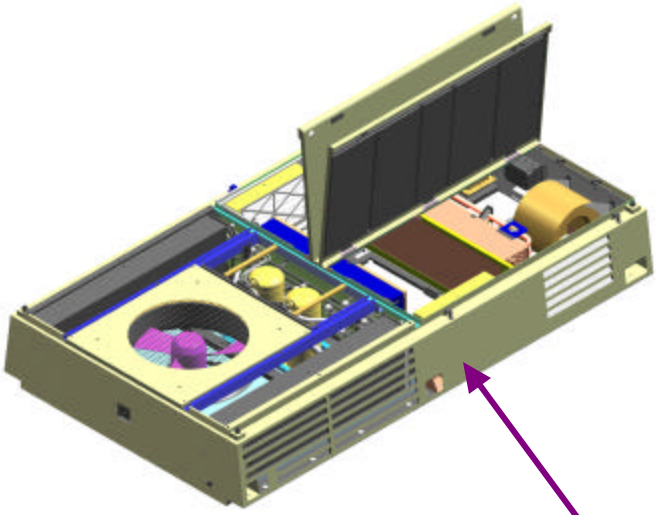
Related Physical Properties:

Weather Sealability and Compression Set:

- BISCO Silicones HT-800 is a closed cell foam, providing an excellent environmental seal for the life of the HVAC unit. If water had entered, it could have caused an electrical malfunction, or worse yet, made its way to the passengers below.

Flame, Smoke and Toxicity Requirements:

- The mass transit industry demands that materials used in railcars meet the most stringent requirements. BISCO Silicones HT-800 series meets ASTM E-162 (Flame Spread), ASTM E-662 (Optical Smoke Density), and SMP-800-C & BSS 7239 (Toxic Gas Emissions Rating), as well as UL-V-0 for flame resistance.



BISCO® Silicone HT-800 acts as a water seal in an HVAC unit.

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