

## Rail

Public transport connects people across the world and with an increasing demand for high speed travel, rail transportation has grown to become one of the most popular and busiest modes of transport, especially in highly populated, urban areas.

With an increase in passenger numbers, health and safety is critical to reduce likelihood of failure and possible disaster.

Rail engineers ensure that all materials used within rail interiors provide the most stringent safety specifications which include flame resistance and smoke toxicity.

As with all rail interior applications, materials used must also have excellent durability and long lifespan which is why silicone is used extensively throughout the train.

### Material Solutions

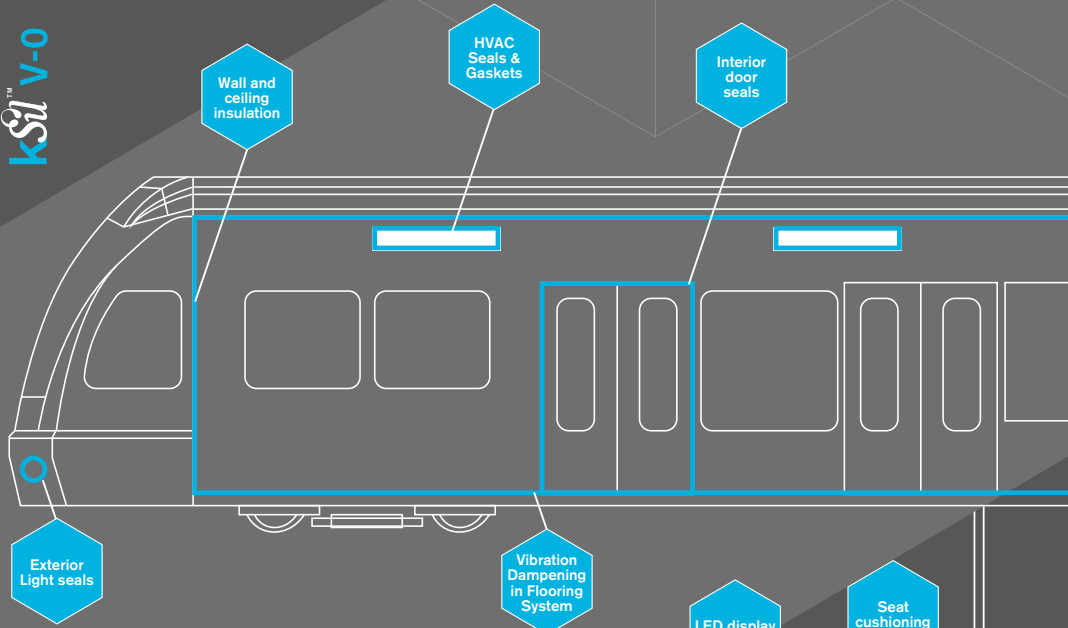
**kSil™ V-0** silicone sponge has been specially formulated for rail interior applications. Approved and specified to industry standards:

- EN 45545-2 (R1 - R23)
- ASTM E162, E662, C1166
- Bombardier SMP 800c
- UL94V0

### Flame, Smoke & Toxicity Performance

EN45545-2	kSil™ V-0
R1 – Interior Surfaces Window Frames Display Screens	<b>HL2</b> (2 – 25mm)
R2 – Interiors Limited Surfaces	<b>HL3</b> (2 – 25mm)
R3 – Interior Strips	<b>HL3</b> (2 – 25mm)
R6 – Passenger Seat Shell	<b>HL2</b> (2 – 25mm)
R7 – Walls of External Body	<b>HL2</b> (2 – 25mm)
R10 – Floors and Cavity Wall	<b>HL3</b> (2 – 25mm)
R17 – External Surfaces	<b>HL2</b> (2 – 25mm)
R22 – Interior Seals	<b>HL3</b> (2 – 25mm)
R23 – Exterior Seals	<b>HL3</b> (2 – 25mm)
R24 – Printed Circuit Boards	<b>HL3</b> (2 – 25mm)





## Engineered sealing solutions for the rail industry

kSil™ V-0 has many uses within rail interiors due to its unique formulation and physical properties. It is the ideal material to withstand high performance demand whilst improving passenger safety.

### HVAC Seals & Gaskets

HVAC systems within rail carriages are designed to withstand heat fluctuations and varying degrees of vibration. KSil™ V-0 has been specially formulated to withstand extreme temperatures from -60°C to 230°C.

### LED Lighting Gaskets

LED lighting enclosures need to be protected from a range of elements from water, dust and moisture to high temperatures, which is why kSil™ V-0 is formulated to protect from all of them. Its closed cell structure prevents water, dust and moisture ingress to IP66.

### Vibration & Acoustic Dampening

kSil™ V-0 provides excellent vibration, shock and acoustic dampening properties for rail flooring. Due to its compact, closed cell structure, kSil™ V-0 effectively absorbs vibration and provides protection to train flooring systems.

