



Silicone Foams for Electronics

Durable and flame retardant low-density materials

The Momentive® family of silicone foams offers durable and reliable protection from heat, corrosive liquids and harsh environmental conditions. They are used in a variety of applications where extremely lightweight, and flame retardant materials are required, as well as those requiring an outstanding seal, such as in automotive, aerospace, and other vehicles.

Key Features and Typical Benefits

- Super lightweight, low density for energy efficiency enhancement of automotive applications
- Flame retardant, low-smoke, zero halogen formulation in support of toxicity and safety compliance standards
- Excellent compression set for repeatable sealing
- Resealable gasketing for simplified repairs
- Excellent heat resistance and insulation over a wide temperature range
- Good thermal insulation and dielectric properties
- Long-lasting, cost-effective seal that can withstand moisture, dust and vibration
- Quick room temperature cure for fast assembly
- Excellent solvent resistance

TYPICAL APPLICATIONS

- Seals for front & rear lighting
- Door modules
- Under-hood assembly weatherproofing & protective components
- Battery assemblies
- Sound deadening
- Electronic enclosures
- Seat cushions
- HVAC insulation
- Thermal insulation

Silicone Foams vs. other Foam Technologies

Performance Feature	Silicone Foam	Polyurethane Foam	CR Foam	EPDM Foam
Flame retardant, low smoke, zero halogen formula	✓	✗	•	•
Weatherability	✓	✗	✗	✗
Compression Set	✓	•	•	•
Heat Resistance	✓	✗	✗	✓
Solvent Resistance	•	•	•	✓

Note: ✓ denotes OK; • denotes acceptable/partially OK; ✗ not OK

Application-Specific Solutions

Each of Momentive's foam products offers distinct features, and therefore careful consideration is required when selecting the product that best fits your technical requirements and budget. Be sure to base your material selection on product density and specifications, as well as manufacturing requirements.



Product	Description	Key Features / Typical Benefits	Density lb/ft ³ (g/cm ³)	Expansion Ratio	Typical Applications	Cure Type
RTF5308 Silicone foam	One-part nitrogen-injected sealant	<ul style="list-style-type: none"> • Excellent elongation • UV, chemical, weather resistance • Good electrical insulation • Primerless adhesion to many metals and plastics 	65.5 (1.05) (Density is approx. half once nitrogen is injected)	2:1	Water sealing, lightweight gaskets	Neutral cure, requires nitrogen injecting equipment to foam
RTF8510 Silicone foam	Two-part foam, easy 1:1 mix ratio	<ul style="list-style-type: none"> • Vibration dampening & sound deadening • Medium density flexible foam • Resistance to cracking or splitting after cure 	16.0 (0.26)	4:1	Sound and vibration damping	Addition cure, cure speed can be increased with heat
TSE5000 Silicone foam	Two-part foam, easy 1:1 mix ratio	<ul style="list-style-type: none"> • Good compression set • Fast room temperature cure • Vibration dampening 	21.8 (0.35)	3:1	Sound and vibration damping	Addition cure, cure speed can be increased with heat
RTF7000 Silicone foam	Multi-component, variable density foam, 100/7.5 mix ratio	<ul style="list-style-type: none"> • Our lowest density foam • FAR 25.8538 vertical flammability certified • ASTM E662 (NFPA 258) smoke density certified 	5.0-16.0 (0.08-0.26)	4:1 to 14:1	Broad range of applications due to variable density	Addition cure, cure speed can be increased with heat



Momentive's silicone foams are also easy to use and process:

- Manual or automated dispensing for high-volume applications
- Fast room-temperature cure for continuous processing
- Low specific gravity for reduced materials usage
- Sheet stock processability depending on application need

Discover how our silicone foam products can meet your specific application requirements.

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