

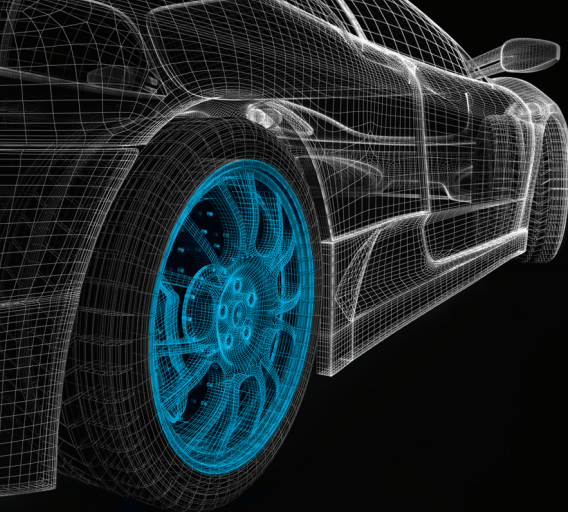
FOAMSEAL®

Strong. Durable. Economical.



Closed-Cell PVC Foam for
Transportation, HVAC, and Industrial Applications





AUTOMOTIVE

Foam Seal 60-A and 100-A Automotive PVC Foams are engineered for durability in automotive applications. 60-A is a soft, low density foam requiring minimal compression so it fills voids and gaps easily. 100-A is a medium density foam that balances compressibility with increased strength and wear resistance, and is "swirl free".⁽⁴⁾ 60-A is available in 1/16" to 1" gauges. 100-A is available in 1/16" to 1/2" gauges.

60-A

100-A

General Motors

GMW17408 Class II Type II

GMW17408 Class II Type III

GMW17408 Class III A thru E Type II

Chrysler

MS-AY 500 Type III

MS-AY 505 Grade A

Ford

ESB-M3G102-A

SPECIALTY

Foam Seal offers a variety of Specialty Foams for specific applications. Our certified Research and Development laboratory can work with you to customize a PVC or PVN foam to your requirements.

Mylar

Effective in a variety of non-critical sealing applications. Available in a low, medium, and high density. Cast on PET.

Colors: Black, Gray

Glass Pad

Clings to glass and other non-porous surfaces without adhesive. Available with pressure sensitive adhesive for lamination to cork or other substrates.

Thickness: 1/16" - 1/8"
Colors: Black, Natural

Aluma-Seal

Thermal insulator that prevents condensation. Low and medium densities. Reduces vibration and deadens sound. Pliable at temperatures of -20°C to 78°C.

Thickness: 1/8" - 1/4"
Colors: Gray

Aluma-Seal UL 723

Insulator for HVAC plenums, pipes, and pans to prevent condensation build-up on surfaces. ANSI/UL 723 certified. Remains pliable at temperatures of -20°C to 78°C.

Thickness: 1/8" - 1/4"
Colors: Gray

70P UL

Low density industrial PVC foam. ANSI/UL94 approved component in electrical applications. Note: UL 94 HF-1/HBF is gauge dependent.

Thickness: 1/16" - 3/4"
Colors: Black, Gray

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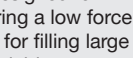
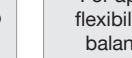
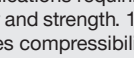

Sulphur Free | California Prop 65 Compliant | Low VOC | UV Resistance Available

- Cushions against shock and vibration
- Closed-cell structures seal out light, air, dust, and moisture
- Resistant to most solvents/chemicals

- Service temperatures of -30°F to +257°F
- Foam available to meet OEM automotive specifications
- Fire resistant (Meets FMVSS 302)

- Available with or without adhesive
- Casting substrates: paper, PET, and aluminum
- Custom colors available

Foam Seal's strong and durable - yet economical - high temperature foam solution for automotive manufacturing as well as general industrial and HVAC applications is a significant improvement over traditional PVC products. These foams outperform more expensive alternatives, giving design engineers all the performance they need while simultaneously managing costs.

60-HTA -30°F to 230°F	100-HTA -30°F to 239°F	150-HTA -30°F to 257°F	HT70-UL -30°F to 230°F
Soft foam designed for applications requiring a low force to compress, and for filling large voids and variable gaps.	For applications requiring both flexibility and strength. 100-HTA balances compressibility with increased strength and wear resistance, and is "swirl free".	For applications requiring a cushion against heavy loads. 150-HTA withstands wear and abrasion in tough-duty applications.	Low density high temperature PVC foam. UL94 approved component in electrical applications.
			
Thickness: 1/16" - 1/2"	Thickness: 1/16" - 1/2"	Thickness: 1/16" - 1/4"	Thickness: 1/16" - 3/8"
General Motors GMW17408 Class II Type II GMW17408 Class IV Type II	General Motors GMW17408 Class II Type III GMW17408 Class IV Type III	General Motors GMW17408 Class I Type IV	UL94 HF-1

Foam Seal Industrial PVC Products are a cost-effective solution for general industrial sealing. These closed-cell, polyvinyl chloride foams are available with or without an adhesive, and custom colors are available upon request. Foam Seal Industrial Foams are California Prop 65 compliant.

The diagram illustrates five different foam density options for a mat, each presented in a vertical panel. Each panel includes a title, a description of the foam's properties, a circular image of the foam sample, and its dimensions (thickness and length).

Density Option	Description	Thickness	Length
Sof-Seal Low Compression	Soft foam designed for easy compression with minimal force.	1/16" - 3/4"	10' - 300'
Low Density	Economical, general purpose foam. UL 157 Certified.	1/16" - 1"	10' - 300'
Medium Density	Combines flexibility with strength and wear resistance.	1/16" - 1/2"	10' - 300'
High Density	Provides dimensional stability and cushions heavier loads.	1/16" - 1/2"	10' - 300'
Very High Density	Enhanced dimensional stability and withstands wear under heavy loads.	1/32" - 1/8"	50' - 300'

Automotive Foam Typical Properties

Characteristics ⁽¹⁾	60-A Automotive	100-A Automotive
Density (lbs/cu. Ft)	4.8 to 7.2	9 to 13
Shore Hardness "00"	21	35
Compression Deflection (50%)	1.77 psi (12.2 kPa)	3.32 psi (22.9 kPa)
Water Absorption (%)	4.5	4.5
Tensile Strength	28.14 psi (194 kPa)	43.80 psi (302 kPa)
Elongation (%)	343	289
Temperature Range	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F
Low Temperature Flex	No Cracking	No Cracking
Flammability ⁽²⁾	Self Extinguishing	Self Extinguishing
Automotive Manufacturer Specifications	General Motors GMW17408 Class II Type II GMW17408 Class III A thru E Type II Ford: ESB-M3G102-A Chrysler MS-AY 500 Type III MS-AY 505 Grade A	General Motors GMW17408 Class II Type III Chrysler MS-AY 500 Type III MS-AY 505 Grade A

Specialty Foam Typical Properties

Characteristics ⁽¹⁾	Mylar Low Density	Glass Pad	Aluma-Seal	Aluma-Seal UL723	70P UL
Density (lbs/cu.ft)	7	10	7	7	7
Shore Hardness "00"	30	45	30	30	28
Force to Compress 25% (psi)	3 to 4 psi (20.7 to 27.6 kPa)	7 psi (48.3 kPa)	3 to 4 psi (20.7 to 27.6 kPa)	3 psi (20.7 kPa)	4.5 psi (31.0 kPa)
Compression Deflection	2.2 psi (15.2 kPa)	5 psi (34.5 kPa)	2.2 psi (15.2 kPa)	2 psi (13.8 kPa)	2 psi (13.8 kPa)
Water Absorption (%)	6	3	6	n/a	5
Tensile Strength (psi)	20 psi (138 kPa)	50 psi (345 kPa)	n/a	n/a	20 psi (138 kPa)
Elongation (%)	130	120	130	n/a	140
Temperature Range	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F
Low Temperature Flex	No Cracking	No Cracking	No Cracking	No Cracking	No Cracking
Flammability ⁽²⁾	Self Extinguishing	Self Extinguishing	Self Extinguishing	UL 723	UL94HF-1/HBF

(1) Typical values. Not to be interpreted as specification. These material properties are dependent on the specific test method and testing parameters. Test methods and conditions are subject to change without notification. Foam is tested without adhesive unless noted. (2) Please refer to the Technical Data Sheet for specifications. (3) Now UL157 certified. (4) When sandwiched between two laminate substrates, Foam Seal Medium Density Foam offers "swirl free" performance, resisting twisting and movement.

Most of our foams are California Prop65 compliant without additional labeling. Most of our foams can be made UV resistant. Consult your sales representative for details.

FOAMSEAL

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ISO 9001:2015 (QMS with Design) | IATF 16949:2016 (QMS with Design)
Certified Women's Business Enterprise | Certified Women Owned Small Business

High Temperature Foam Typical Properties

Characteristics ⁽¹⁾	60-HTA High Temp	100-HTA High Temp	150-HTA High Temp	HT70-UL HF-1
Density (lbs/cu. Ft)	7	10	15	7
Shore Hardness "00"	20	35	50	25
Compression Deflection (50%)	1.4 psi (10.6 kPa)	3.3 psi (23 kPa)	7.3 psi (50 kPa)	1.8 psi (12.4 kPa)
Water Absorption (%)	3	3	1.5	2.5
Tensile Strength	29 psi (200 kPa)	44 psi (302 kPa)	49 psi (339 kPa)	21 psi (145 kPa)
Elongation (%)	289	283	274	170
Temperature Range	-34°C to 110°C -30°F to 230°F	-34°C to 115°C -30°F to 239°F	-34°C to 125°C -30°F to 257°F	-34°C to 110°C -30°F to 230°F
Low Temperature Flex	No Cracking	No Cracking	No Cracking	
Flammability ⁽²⁾	GMW 3232-Pass	GMW 3232-Pass	GMW 3232-Pass	UL94 HF-1
Automotive Manufacturer Specifications	General Motors GMW17408 Class II Type II GMW17408 Class IV Type II	General Motors GMW17408 Class II Type III GMW17408 Class IV Type III	General Motors GMW17408 Class I Type IV	

Industrial Foam Typical Properties

Characteristics ⁽¹⁾	Sof-Seal Low Compression	Low Density ⁽³⁾	Medium Density ⁽⁴⁾	High Density	Very High Density
Density (lbs/cu.ft)	7	7	11	15	19
Shore Hardness "00"	7	30	40	50	58
Force to Compress 25% (psi)	1.4 psi (9.7 kPa)	3 to 4 psi (20.7 to 27.6 kPa)	6.5 psi (44.8 kPa)	9 psi (62.1 kPa)	10.5 psi (72.1 kPa)
Compression Deflection	0.3 psi (2.1 kPa)	2.2 psi (15.2 kPa)	3.5 psi (24.1 kPa)	5.5 psi (37.9 kPa)	7 psi (48.3 kPa)
Water Absorption (%)	3	6	3	3	2
Tensile Strength (psi)	>10 psi (68.9 kPa)	20 psi (138 kPa)	35 psi (241.3 kPa)	60 psi (413.7 kPa)	70 psi (482.6 kPa)
Elongation (%)	230	130	170	180	180
Temperature Range	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F	-20°C to 78°C -4°F to 172°F
Low Temperature Flex	No Cracking	No Cracking	No Cracking	No Cracking	No Cracking
Flammability ⁽²⁾	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing



Effective Date: Jul 2021 - v6.1

Check out our other great products, including silicone and hybrid industrial adhesives/sealants
novagard.com

