

FOAMSEAL®
Division of Novagard



The world breathes easier with Foam Seal.

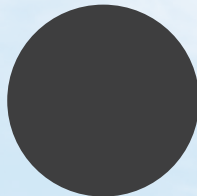
Sulfur Free | Low VOC | Certified Prop 65 Compliant



AUTOMOTIVE

60-A is engineered for durability and sustainability in automotive applications. It is a soft, low density foam requiring minimal compression so it fills voids and gaps easily. Available in black in 1/16" to 3/4" (.16 cm to 1.91 cm) gauges.

General Motors: GMW17408 Class II Type II
GMW17408 Class III A thru E Type II
GMW115473 Type II
Ford: ESB-M3G102-A
Chrysler: MSAY500 Type VII

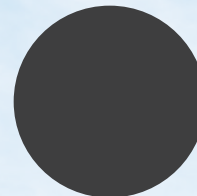


60-A

MEDICAL GRADE

60MG has been independently tested and certified to comply with the ISO 10993-10 protocol for direct skin contact. With an application temperature range of -40°F to 172°F (-40°C to 78°C), our biocompatible foam can be used in a number of healthcare applications, including face shields, face masks, pads for diagnostic devices, therapeutic accessories, and wheelchair seating.

Colors: Black, Gray



60MG

FOAMSEAL®

Sulfur Free | California Prop 65 Compliant | Low VOC | UV Resistant

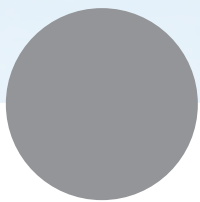


- Absorbs and cushions against shock and vibration
- Closed-cell structures seal out light, air, dust, and moisture
- Resistant to most solvents/chemicals
- Service temperatures of -40°F to 257°F (-40°C to 125°C)

- Available to meet OEM auto specs
- Self extinguishing (meets FMVSS 302)
- Available with or without adhesive
- Casting substrates: paper, polyester/mylar, and aluminum
- Custom colors available, minimums apply

SPECIALTY

Foam Seal offers specialty closed-cell foams cast on a variety of substrates designed for specific applications. Our R&D chemists can work with you to customize a PVC or PVN foam to your requirements.

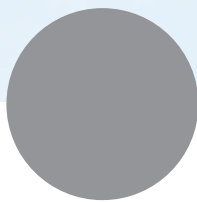


Aluma-Seal

Thermal insulator that prevents condensation. Low and medium densities. Reduces vibration and deadens sound. Pliable at temperatures of -40°F to 172°F (-40°C to 78°C).

Thickness: 1/8" - 1/4"
(.32 cm - .64 cm)

Color: Gray

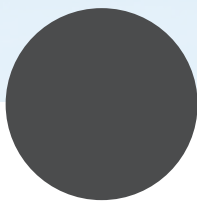


Aluma-Seal UL 723

Insulator for HVAC plenums, pipes, and pans to prevent condensation build-up on surfaces. ANSI/UL 723 certified. Pliable at temperatures of -40°F to 172°F (-40°C to 78°C).

Thickness: 1/8" - 1/4"
(.32 cm - .64 cm)

Color: Gray

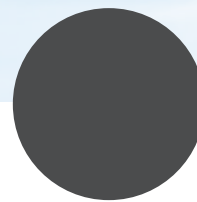


70P UL

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"
(.16 cm - 1.9 cm)

Colors: Black, Gray

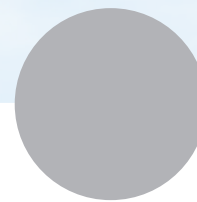


Mylar

Effective in a variety of non-critical sealing applications. Mylar casting substrate provides dimensional stability. Available in a low, medium, and high density. Self-wound on PET.

Thickness:
Based on foam type

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"
(.16 cm - .32 cm)

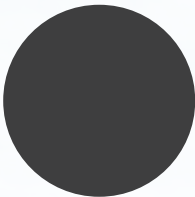
Colors: Black, Natural

INDUSTRIAL

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.

Sof-Seal Low Compression

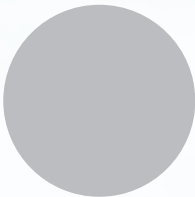
Soft foam designed for easy compression with minimal force.



Thickness: 1/16" - 3/4"
(.16 cm - 1.9 cm)
Colors: Black, Gray

Low Density

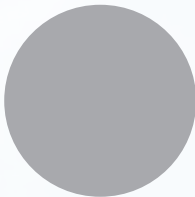
General purpose foam used when seals need to conform to tight radius curves.



Thickness: 1/16" - 1"
(.16 cm - 2.5 cm)
Colors: Black, Gray

Medium Density

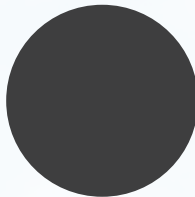
Combines durability and flexibility with strength in a swirl-free foam.



Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)
Colors: Black, Gray

High Density

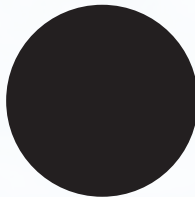
Provides dimensional stability and cushions heavier loads.



Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)
Colors: Black, Gray

Very High Density

Enhanced dimensional stability. Resists deterioration under heavy loads.



Thickness: 1/32" - 1/8"
(.08 cm - .32 cm)
Colors: Black, Gray

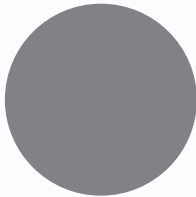
HIGH TEMPERATURE

Cost Effective Replacement for EPDM | Sulfur Free | California Prop 65 Compliant | Low VOC

Foam Seal's polymeric foams offer peak performance in extreme temperatures. Our high temperature foams outperform more expensive EPDM alternatives, giving design engineers the desired performance while managing costs. HT polymeric foams are used in numerous applications including automotive, manufacturing, general industrial, HVAC, electrical panels, and kiosks.

HT70-UL -30°F to 230°F (-34°C to 110°C)

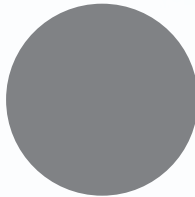
Low density high temperature PVC foam. UL94 approved component in electrical applications.



Thickness: 1/16" - 3/8"
(.16 cm - .95 cm)
Color: Black
UL94 HF-1

60-HTA -30°F to 230°F (-34°C to 110°C)

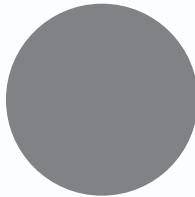
Soft foam designed for applications requiring a low force to compress, and for filling large voids and variable gaps.



Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)
Color: Black
General Motors
GMW17408 Class II Type II
GMW17408 Class IV Type II

100-HTA -30°F to 239°F (-34°C to 115°C)

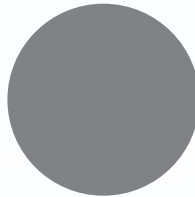
For applications requiring both flexibility and strength. It balances compressibility with increased strength and wear resistance.



Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)
Color: Black
General Motors
GMW17408 Class II Type III
GMW17408 Class IV Type III

150-HTA -30°F to 257°F (-34°C to 125°C)

For applications requiring a cushion against heavy loads. 150-HTA withstands wear and abrasion in tough-duty applications.



Thickness: 1/16" - 1/4"
(.16 cm - .64 cm)
Color: Black
General Motors
GMW17408 Class II Type IV



AUTOMOTIVE FOAM			
Characteristics ⁽¹⁾	60-A GMW17408	60-A ESB-M3G102-A	60-A MSAY500
Density (lbs/cu.Ft)	4.8 - 7.2	4.8 - 7.2	4.8 - 7.2
Shore Hardness "00" <i>(ASTM D2240)</i>	14	14	14
Force to Compress <i>(ASTM D1667)</i>	not required	2.1 psi (14.6 kPa)	4.6 psi (31.7 kPa)
Compression Deflection <i>(ASTM D1667)</i>	1.77 psi (12.2 kPa)	.71 psi (4.9 kPa)	not required
Water Absorption <i>(ASTM D1056)</i>	4.5%	not required	5%
Tensile Strength [Die A] <i>(ASTM D412)</i>	27.56 psi (190 kPa)	4.5 lb/in	27.6 psi (190 kPa)
Elongation <i>(ASTM D412)</i>	340%	320%	340%
Operating Temperature Range	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C
Flammability ⁽²⁾ <i>(FMVSS 302)</i>	Self Extinguishing	not required	Self Extinguishing
Automotive Manufacturer Specifications	Class II, Type II Class III A-E, Type II	ESB-M3G102-A	Type VII

MEDICAL GRADE FOAM	
Characteristics ⁽¹⁾	60MG
Density (lbs/cu.Ft)	5.5 - 10
Shore Hardness "00" <i>(ASTM D2240)</i>	25
Water Absorption <i>(ASTM D1056)</i>	6%
Tensile Strength [Die A] <i>(ASTM D412)</i>	20 psi (137.9 kPa)
Elongation <i>(ASTM D412)</i>	110%
Operating Temperature Range	-40°F to 172°F -40°C to 78°C
Flammability ⁽²⁾ <i>(FMVSS 302)</i>	Self Extinguishing
Skin Contact	ISO 10993-10

INDUSTRIAL FOAM					
Characteristics ⁽¹⁾	Sof-Seal Low Compression	Low Density	Medium Density ⁽³⁾	High Density	Very High Density
Density (lbs/cu.Ft)	5.5 - 9	5.5 - 10	9 - 13	13 - 17	17-21
Shore Hardness "00" <i>(ASTM D2240)</i>	15	25	34	44	53
Force to Compress <i>(ASTM D1667)</i>	1.17 psi (8.1 kPa)	1.8 psi (12.4 kPa)	3 - 9.4 psi (21 - 64.7 kPa)	4.5 psi (31 kPa)	6.5 psi (44.6 kPa)
Compression Deflection <i>(ASTM D1667)</i>	0.4 psi (2.8 kPa)	1.0 psi (6.9 kPa)	1.7 psi (11.5 kPa)	3.5 psi (24.1 kPa)	3.7 psi (25.5 kPa)
Water Absorption <i>(ASTM D1056)</i>	3.9%	6%	2.6%	1.9%	1.7%
Tensile Strength [Die A] <i>(ASTM D412)</i>	18.3 psi (126.2 kPa)	25 psi (172.4 kPa)	42 psi (289.6 kPa)	70 psi (482.6 kPa)	82.1 psi (566.1 kPa)
Elongation <i>(ASTM D412)</i>	216%	150%	235%	186.5%	143.6%
Operating Temperature Range	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C
Flammability ⁽²⁾ <i>(FMVSS 302)</i>	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing

SPECIALTY FOAM					
Characteristics ⁽¹⁾	Aluma-Seal	Aluma-Seal UL723	70P UL	Mylar ⁽⁴⁾ Low Density	Glass Pad
Density (lbs/cu.Ft)	9 - 13	6 - 9	6.2 - 10	5.5 - 10	7 - 15
Shore Hardness "00" <i>(ASTM D2240)</i>	34	30	26	25	30
Force to Compress <i>(ASTM D1667)</i>	2.9 psi (20 kPa)	1.6 psi (11 kPa)	1.5 psi (10.3 kPa)	1.8 psi (12.4 kPa)	3 psi (20.7 kPa)
Compression Deflection [25%] <i>(ASTM D1667)</i>	1.7 psi (11.7 kPa)	1 psi (6.9 kPa)	.5 psi (3.5 kPa)	1.0 psi (6.9 kPa)	1.5 psi (10.3 kPa)
Water Absorption <i>(ASTM D1056)</i>	50%	n/a	8%	6%	8%
Tensile Strength [Die A] <i>(ASTM D412)</i>	n/a	n/a	20 psi (137.9 kPa)	25 psi (172.4 kPa)	20 psi (137.9 kPa)
Elongation <i>(ASTM D412)</i>	n/a	n/a	150%	150%	127.8%
Operating Temperature Range	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C	-40°F to 172°F -40°C to 78°C	-40°F to 180°F -40°C to 82°C	-40°F to 172°F -40°C to 78°C
Flammability ⁽²⁾	Self Extinguishing	UL 723	UL94HF-1/HBF	Self Extinguishing	Self Extinguishing

HIGH TEMPERATURE FOAM				
Characteristics ⁽¹⁾	HT70-UL	60-HTA	100-HTA	150-HTA
Density (lbs/cu.Ft)	6.2 - 10	4.8 - 7.2	9 - 13	13 - 17
Shore Hardness "00" <i>(ASTM D2240)</i>	25	20	35	50
Force to Compress <i>(ASTM D1667)</i>	4.4 psi (30.3 kPa)	-	-	-
Compression Deflection <i>(ASTM D1667)</i>	1.8 psi (12.4 kPa)	1.4 psi (9.6 kPa)	3.3 psi (22.9 kPa)	7.3 psi (50.2 kPa)
Water Absorption <i>(ASTM D1056)</i>	2.5%	3%	3%	1.5%
Tensile Strength (Die A) <i>(ASTM D412)</i>	21 psi (144.8 kPa)	29 psi (200 kPa)	43.8 psi (302 kPa)	49.2 psi (339 kPa)
Elongation <i>(ASTM D412)</i>	170%	289%	283%	274%
Operating Temperature Range	-30°F to 230°F -34°C to 110°C	-30°F to 230°F -34°C to 110°C	-30°F to 239°F -34°C to 115°C	-30°F to 257°F -34°C to 125°C
Flammability ⁽²⁾	UL94 HF-1/HBF	Pass: GMW 3232/ Self Extinguishing	Pass: GMW 3232/ Self Extinguishing	Pass: GMW 3232/ Self Extinguishing
Automotive Manufacturer Specifications	-	GMW17408 Class II Type II GMW17408 Class IV Type II	GMW17408 Class II Type III GMW17408 Class IV Type III	GMW17408 Class II Type IV

(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) When sandwiched between two laminate substrates, Foam Seal Medium Density Foam offers "swirl free" performance, resisting twisting and movement. (4) Mylar available in low, medium, and high density.

Most of our foams are California Prop65 compliant without additional labeling. Consult your sales rep for details.

FOAMSEAL Division of Novagard
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foam-seal.com

ISO 9001:2015 (QMS with Design) | IATF 16949:2016 (QMS with Design) | Certified WBE

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

