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FOAMSEAL
Division of Novagard

HIGH TEMPERATURE FOAM				
Characteristics ⁽¹⁾	70HT UL	60HT ⁽⁶⁾	100HT ⁽⁵⁾	150HT ⁽⁵⁾
Density (lbs/cu. Ft)	5.8 - 8.2	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>	<5%	<5%	<5%	<10%
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	-40°F to 220°F -40°C to 104°C	-40°F to 220°F -40°C to 104°C	-40°F to 235°F -40°C to 113°C	-40°F to 257°F -40°C to 125°C
Flammability ⁽²⁾	UL 94 HF-1 1/16" to 0.207" UL 94 HBF up to 1/2"	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

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	GMW17408 Class II, Type II Class III A-E, Type II	ESB-M3G102-A	MSAY500 Type VII

INDUSTRIAL FOAM			
Characteristics ⁽¹⁾	Low Density	Medium Density ⁽³⁾	High Density
Density (lbs/cu. Ft)	5.5 - 10	9 - 13	13 - 17
Shore Hardness "00" <i>(ASTM D2240)</i>	25	34	44
Force to Compress <i>(ASTM D1667)</i>	1.8 psi (12.4 kPa)	3 - 9.4 psi (21 - 64.7 kPa)	4.5 psi (31 kPa)
Compression Deflection <i>(ASTM D1667)</i>	1.0 psi (6.9 kPa)	1.7 psi (11.5 kPa)	3.5 psi (24.1 kPa)
Water Absorption <i>(ASTM D1056)</i>	6%	2.6%	1.9%
Tensile Strength [Die A] <i>(ASTM D412)</i>	25 psi (172.4 kPa)	42 psi (289.6 kPa)	70 psi (482.6 kPa)
Elongation <i>(ASTM D412)</i>	150%	235%	186.5%
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	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	UL 94HF-1/HBF	Self Extinguishing	Self Extinguishing

⁽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. ⁽⁵⁾ Preliminary data.

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

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

Effective Date: Aug 2024 - v9.1

FOAMSEAL Division of Novagard

Strong. Durable. Economical.



The world breathes easier with Foam Seal.

Sulfur Free | Low VOC | Certified Prop 65 Compliant



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

FOAMSEAL®

- Absorbs and cushions against shock and vibration
- Closed-cell structure seals 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

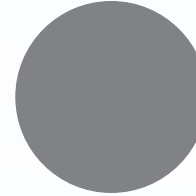


HIGH TEMPERATURE

Foam Seal's polymeric foams offer peak performance in extreme environments and outperform more expensive alternatives. HT polymeric foams are used in applications such as automotive, manufacturing, general industrial, HVAC, electrical panels, and kiosks.

70HT UL -40°F to 220°F (-40°C to 104°C)

Low density high temperature PVC foam. UL 94 approved component in electrical applications.

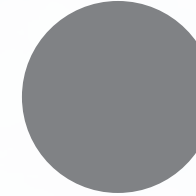


Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)
Color: Black

UL 94 HF-1 1/16" - 0.207"
UL 94 HBF up to 1/2"
Yellow Card #E112126

60HT -40°F to 220°F (-40°C to 104°C)

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



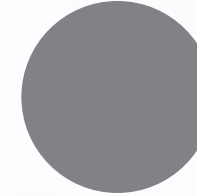
Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)
Color: Black

General Motors
GMW17408 Class II Type II
GMW17408 Class IV Type II

Preliminary data

100HT -40°F to 235°F (-40°C to 113°C)

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



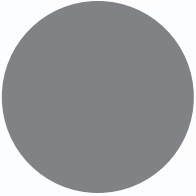
Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)
Color: Black

General Motors
GMW17408 Class II Type III
GMW17408 Class IV Type III

Preliminary data

150HT -40°F to 257°F (-40°C to 125°C)

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



Thickness: 1/32" - 1/4"
(.08 cm - .64 cm)
Color: Black

General Motors
GMW17408 Class II Type IV

Preliminary data

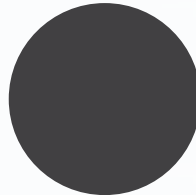
AUTOMOTIVE

Engineered for durability and sustainability.

60-A

A soft, low density foam requiring minimal compression so it fills voids and gaps easily.

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



Thickness: 1/16" to 3/4"
(.16 cm to 1.91 cm)

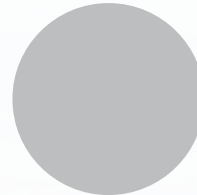
Color: Black

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.

Low Density

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

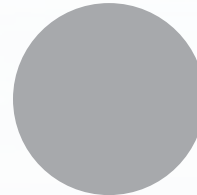


Thickness: 1/16" - 1"
(.16 cm - 2.5 cm)

Colors: Black, Gray

Medium Density

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

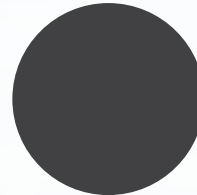


Thickness: 1/16" - 1/2"
(.16 cm - 1.3 cm)

Colors: Black, Gray

High Density

Provides dimensional stability and cushions heavier loads.

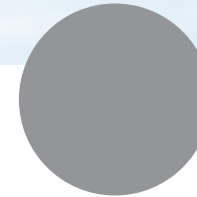


Thickness: 1/16" - 5/16"
(.16 cm - .79 cm)

Colors: Black, Gray

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 foam to your requirements.

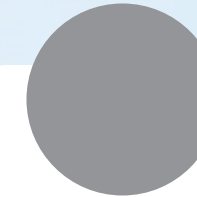


Alumina-Seal

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

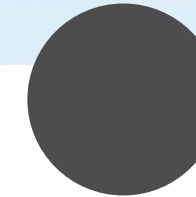


Alumina-Seal UL723

Insulator for HVAC plenums, pipes, and pans to prevent condensation build-up on surfaces. Pliable at temperatures of -40°F to 172°F (-40°C to 78°C). ANSI/UL 723 certified Yellow Card #R20969

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

Color: Gray

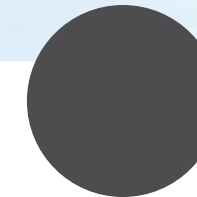


70P UL

Low density industrial PVC foam. ANSI/UL 94 approved component in electrical applications. Note: UL 94 HF-1/HBF is gauge dependent. Yellow Card #E112126

Thickness: 1/16" - 3/4"
(.16 cm - 1.9 cm)

Colors: Black, Gray

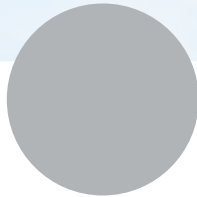


Mylar

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" - 3/16"
(.16 cm - .48 cm)

Colors: Black, Natural