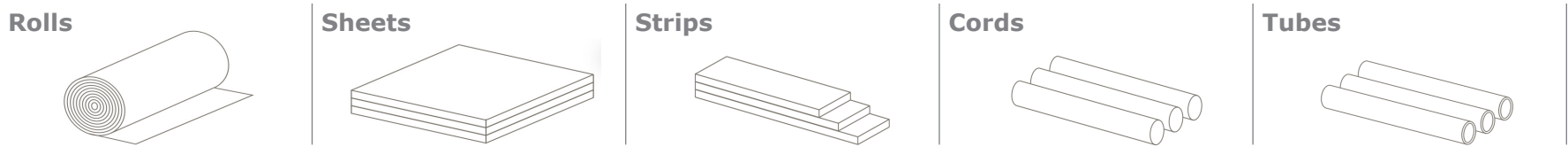


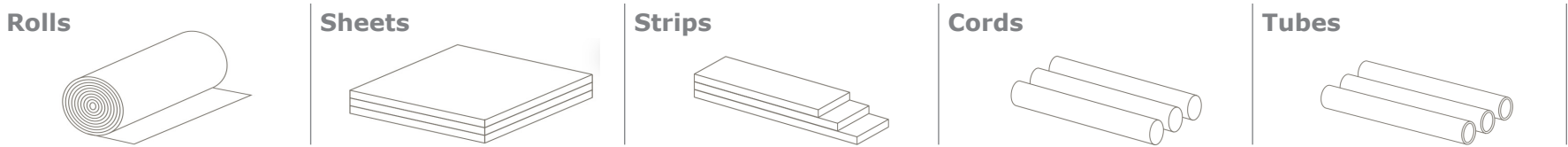
# Foam

USA Sealing is an industry leader in common & specialty foam materials. Our offering includes multiple cell types, grades, adhesive options, and applications.



Materials	Cell Type	Grade	Firmness	Color	Texture	Compression Deflection @ 25%	Density	Tensile Strength	Temp Range	Specifications
Neoprene The most commonly used foam material due to its good balance of strength, oil, water, and weather resistance. Common applications include industrial gaskets to seal water, air, dust, and other environmental items, automotive gaskets, and athletic equipment.										
NSR	Closed Cell	Standard	Medium (9 - 13 psi)	Black	Smooth	13 psi	20 lbs / cu. ft.	100 psi	-70° to 200° F	ASTM D1056 2C3, FMVSS-302
NSR-F	Closed Cell	Standard	Firm (14+ psi)	Black	Smooth	20 psi	20 lbs / cu. ft.	200 psi	-70° to 200° F	ASTM D1056 2C5, FMVSS-302
NSR-FR	Closed Cell	Fire Retardant	Extra Soft (0 - 4 psi)	Black	Smooth	3 psi	10 lbs / cu. ft.	60 psi	-70° to 200° F	ASTM D1056 2C1, UL 94 HF-1
NSRO	Open Cell	Standard	Soft (5 - 8 psi)	Black	Textured	7 psi	33 lbs/ cu. ft.	Not Rated	-20°F to 175°F	ASTM D1056 1C2
EPDM The most weather resistant foam, with a wide range of chemical compatibility, steam resistance, and good temperature range. Applications include anti-rattle and anti-skid applications, seals, flotation devices, and insulation.										
ESR	Closed Cell	Standard	Medium (9 - 13 psi)	Black	Smooth	11 psi	18 lbs / cu. ft.	70 psi	-90° to 275° F	ASTM D1056 2A3, FMVSS-302
ESR-S	Closed Cell	Standard	Extra Soft (0 - 4 psi)	Black	Smooth	4 psi	12 lbs / cu. ft.	60 psi	-90° to 275° F	ASTM D1056 2A1, FMVSS-302
CESR	Semi-Closed	Standard	Extra Soft (0 - 4 psi)	Black	Textured	1 psi	6 lbs / cu. Ft.	10 psi	-70° to 250° F	N/A
Silicone Silicone displays excellent resistance to high and low temperatures, compression set, chemicals and weather. Applications include gaskets, heat shields, fire stops, cushions, and insulation for a wide variety of applications.										
SSR / 731AMFS	Closed Cell	Standard	Medium (9 - 13 psi)	Red	Textured	10 psi	42 lbs / cu. ft.	100 psi	-100° to 500° F	ASTM D1056 2D3
FRS	Closed Cell	Fire Retardant	Medium (9 - 13 psi)	Blue	Textured	10 psi	39 lbs / cu. ft.	90 psi	-100° to 500° F	ASTM D1056 2D3, UL 94 HB
SSR-FDA	Closed Cell	Food	Medium (9 - 13 psi)	Gray	Ultra Smooth	9 psi	22 lbs / cu. ft.	45 psi	-60° to 400° F	ASTM D1056 2D3, UL 94 V-0, UL 94 HF-1
SSR-B	Closed Cell	Standard	Medium (9 - 13 psi)	Black	Textured	11 psi	39 lbs / cu. ft.	100 psi	-100° to 500° F	ASTM D1056 2D3
SSR-F	Closed Cell	Standard	Firm (14+ psi)	Red	Textured	17 psi	50 lbs / cu. ft.	200 psi	-100° to 500° F	ASTM D1056 2D4
SSR-FR	Closed Cell	Fabric-Reinforced	Firm (14+ psi)	Blue	Smooth	15 psi	35 lbs / cu. ft.	125 psi	-100° to 500° F	N/A
12CR10480	Closed Cell	Low Compression Set	Medium (9 - 13 psi)	Brown	Smooth	9 psi	29 lbs / cu. ft.	100 psi	-100° to 500° F	ASTM D1056 2D3
Buna-N Buna-N displays excellent strength and is the standard choice when oil resistance is required. This material also resists water and mild chemicals. Commonly found in applications related to automotive, engines, fuel systems, marine, and oil and gas.										
BSR	Closed Cell	Standard	Soft (5 - 8 psi)	Black	Smooth	7 psi	17 lbs / cu. ft.	100 psi	-40° to 200° F	ASTM D1056 2B2, FMVSS-302
BSR-S	Closed Cell	Standard	Extra Soft (0 - 4 psi)	Black	Smooth	3 psi	14 lbs / cu. ft.	70 psi	-40° to 200° F	ASTM D1056 2B1, FMVSS-302
Buna-N / PVC Buna-N/PVC foam exhibits excellent impact absorption and good chemical resistance properties. Also known as crushed-cell foam, semi-closed foam is highly conformable like an open-cell foam but forms a tight seal and prevents air, water, and fluids from passing through it like a closed-cell foam.										
CBPSR	Semi-Closed	Standard	Extra Soft (0 - 4 psi)	Black	Textured	0.4 psi	5.5 lbs / cu. Ft.	25 psi	-40° to 200° F	N/A

# Foam



Materials	Cell Type	Grade	Firmness	Color	Texture	Compression Deflection @ 25%	Density	Tensile Strength	Temp Range	Specifications
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**Viton** Viton is the most chemical resistant foam and can withstand extreme temperatures. It is the go to choice for the most extreme of applications.

VSR / VFS	Closed Cell	Standard	Soft (5 - 8 psi)	Black	Smooth	7 psi	15 lbs / cu. ft.	100 psi	-15° to 400° F	ASTM D1056 2B2
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**Fluorosilicone** Fluorosilicone is a combination of fluoroelastomer and silicone which results in an excellent material for fuels, chemicals, and oils with a broad temperature range. Fluorosilicone foam is often used in applications containing oil and fluids that would normally degrade standard elastomers.

FSR	Open Cell	Standard	Firm (14+ psi)	Blue	Textured	15 psi	35 lbs / cu. ft.	180 psi	-80°F to 400°F	AMS 3323 Class 2, MIL-R-6130 Type 2, ASTM D1056 2C4
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**Epichlorohydrin** Epichlorohydrin exhibits excellent chemical and oil resistance, making it an ideal choice for gasketing material.

ECHSR	Closed Cell	Standard	Extra Soft (0 - 4 psi)	Black	Smooth	4 psi	15 lbs/ cu. ft.	40 psi	-40°F to 300°F	ASTM D1056 2C1, FMVSS 302
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**Natural Sponge** Natural sponge exhibits excellent abrasion resistance and is often used in applications with repetitive sealing.

NATSR	Open Cell	Standard	Extra Soft (0 - 4 psi)	Black	Textured	4 psi	22 lbs/ cu. ft.	Not Rated	-20°F to 160°F	ASTM D1056 1A1, MILC-3133, MIL-STD-670
NATSR	Open Cell	Standard	Soft (5 - 8 psi)	Black	Textured	8 psi	26 lbs/ cu. ft.	Not Rated	-20°F to 160°F	ASTM D1056 1A2, MILC-3133, MIL-STD-670
NATSR	Open Cell	Standard	Medium (9 - 13 psi)	Black	Textured	13 psi	30 lbs/ cu. ft.	Not Rated	-20°F to 160°F	ASTM D1056 1A3, MILC-3133, MIL-STD-670

**Polyurethane** Polyurethane foam is a versatile material used for shock absorption and cushioning. It is a common choice for packaging and insulation applications.

PU	Open Cell	Standard	Extra Soft (0 - 4 psi)	Black	Smooth	0.9 psi	2 lbs/cu. ft.	20 psi	-20° to 180° F	CAL 117
MCP	Open Cell	Low Compression Set	Soft (5 - 8 psi)	Black	Smooth	6 psi	10 lbs / cu. ft.	40 psi	-40° to 225° F	UL 94 HB

**Polyethylene** Polyethylene foam is a versatile material with good chemical resistance that is used for shock absorption and cushioning. These sheets are made of cross-linked polyethylene which enhances strength and chemical resistance.

XPE	Closed Cell	Standard	Soft (5 - 8 psi)	Gray	Smooth	7 psi	2 lbs / cu. ft.	40 psi	-20° to 160° F	UL 94 HF-1, FMVSS302
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**EVA** EVA foam resists tearing better than other types of foam and is used for shock absorption and cushioning. EVA is often fabricated into straps and padding.

EVA	Closed Cell	Standard	Firm (14+ psi)	Black	Smooth	17 psi	2 lbs / cu. ft.	50 psi	-70° to 160° F	N/A
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**Pre-Applied Adhesive** USA Sealing offers pre-applied adhesive to all foam materials. Options include Standard or High Temp grades, Single or Double-Sided application, and a lined backing.

	Temperature Range	Adhesive Material	Thickness	Shelf Life
Acrylic Adhesive	-30° to 250° F	Acrylic	1.3 Mills.	18 Mo. from Application
High-Temp Adhesive	-100° to 500° F	Silicone	2.0 Mills.	18 Mo. from Application