

100-HTA GM High Temperature PVC Foam Specification Data



DESCRIPTION

Foam Seal 100-HTA is a high temperature, automotive grade, closed cell PVC foam formulated to conform to the specifications outlined in GMW 17408 Class II Type III (interior/exterior applications) and GMW 17408 Class IV, Type III.

Foam Seal 100-HTA is sulphur free to eliminate fogging and low VOC to eliminate outgassing. Foam Seal 100-HTA is California Prop 65 compliant and UV resistant.† Test results demonstrate that Foam Seal 100-HTA can be classified to 2B1 as specified by ASTM D-1056.

APPLICATIONS

Foam Seal 100-HTA is designed for applications requiring both flexibility and strength. It remains pliable at temperatures of -30°F to 239°F (-34°C to 115°C).

BACK STRIPPING

Also known as reverse wrapping, Foam Seal/Novagard manufactures the foam with the adhesive side exposed. The length is determined with the foam used in this manner. When the use requires the adhesive side to be against the paper, the product has to be reverse wrapped so the uncoated foam is exposed. This causes a loss of yield in length due the foam being configured to the shorter length of the adhesion liner. The loss will be equal to the outer circumference of the material minus 10 inches.

STORAGE

Product shelf life begins on the date of production as referenced by the lot number. Foam Seal 100-HTA has a shelf life of 6 months with adhesive and 2 years without adhesive when stored at or below 75°F.

ADDITIONAL INFORMATION

Foam Seal/Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product, however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety. †Additional UV stabilizers can be added to any Foam Seal product if required for your application.

PRODUCT SPECIFICATIONS*

Parameter	Method	Condition	Specification	Typical Value
Gauge (Thickness)		1/16" to < 1/8" 1/8" to < 3/16" 3/16" to 1/4"	+/- 20% +/- 15% +/- 10%	Project Specific
Width (Rolls)		3/16" to < 2" wide 2" to 52" wide	+/- 1/32" +/- 1/16"	Project Specific
Length		≤ 50' long > 50' long	-0" to + 6" -1% to +2%	Project Specific
Density (lbs/cubic ft)	ASTM D1667		9 to 13	10
Shore Hardness "00"	ASTM D2240			35
Shelf Life (Foam Only)			24 months	Pass
Compression Deflection	ASTM D1667	1 minute @ 50%	3.05 to 6.96 psi (21.01 to 48.00 kPa)	3.32 psi (22.89 kPa)
Water Absorption	ASTM D1056		10% maximum	3%
Tensile	ASTM D412		24.95 psi (172 kPa) minimum	43.80 psi (302 kPa)
Elongation (%)	ASTM D412		100%	283%
Ozone Resistance		100 ppm 72 hours at 40°C	No Cracking	Pass
Solvent Compatibility		10 minutes Naphtha	Pass	Pass
Cycle Tests (Exterior) Linear Shrinkage Corrosion			5 maximum No Corrosion	Pass Pass
Conical Mandrel Bend		4 hours @ -30°C	Pass	Pass
Adhesion		Stainless Steel	> 350 N/m	Foam Failure
Flammability (Rate – mm/minute)		GMW3232	<100 mm/minute	Pass
Water Permeability As Received Sealability Aged Sealability			No leaks after 1 hour No leaks after 1 hour	Pass Pass
Compression Set				21.42%
Aged Resistance				5.78%

* Foam without adhesive or liner unless noted. Specifications based on a sample size of three to five. The automotive specifications referenced have other requirements, which may require additional testing. Testing to these specifications may be dependent on the specific application. Some specifications are subject to change without notice. All testing was performed according to GMW3221 Code B.