

**Material Specification
Sheet**e: sales@rhnutall.co.uk
t: 0121 359 2484
f: 0121 359 4439**RHN 27G**www.rhnutall.co.uk**HT800 Silicone Sponge****General Description**

HT-800 is a highly versatile, medium firmness silicone that offers the lightness of a foam, with the enhanced sealing capabilities of a traditional sponge rubber. It is used to seal and protect various outdoor communication, electronics, and lighting enclosures, while providing protection against wind driven rain and fire. The material is also used to reduce shock or isolate vibration. HT00 is widely used in the rail/mass transit industry; it is BS6853 Cat 1A approved for use in rail vehicles and is LUL (London Underground) approved for use on the London Underground network.

Feature and Benefits

Excellent memory and low stress relaxation reduce maintenance costs associated with gasket failures due to compression set and softening. Resistance to ultraviolet light, ozone, extreme temperatures, and flame enables consistent performance in all environments. Compact cell structure and unique formulation provides enhanced sealing performance to resist penetration of fine particles and wind driven rain.

Property	Test Method	Typical Value
Density Lb/ft ³	ASTM D1056	22
Compression set %	ASTM D1056 Test D @ 70 °C	<1
Compression set %	ASTM D1056 Test D @ 100 °C	<5
Tensile strength (psi)	ASTM D412	45
Elongation %	ASTM D412	80
Toxic gas emissions	SMP-800	Pass
Compression deflection (psi)	ASTM D1056 25% Deflection	9
Recommended Intermittent High Temperature °C	Internal	250
Recommended use temperature °C	SAE J236	-55 to 200
Low temp flex at -55 °C	ASTM D1056	Pass
Flame resistance	UL94	Listed V-0 and HF-1
Flame Spread	ASTM E162	<25
Smoke Density (Ds)	ASTM E662 tested @ 4 mins	<50
Smoke Density (Ds)	ASTM E662 tested @ 1.5 mins	<20
Toxic gas emissions rating	SMP-800	Pass
Water absorption	Internal 24 Hours @ room temp	1.4%
UV resistance	SAE J-1960	No Degradation
Ozone effect rating	ASTM D1171	0 (no cracks)
Corrosion resistance	AMS-3568	No Degradation
Dialectic constant	ASTM D150	1.42
Dialectic strength	ASTM D149 Volts/Mil	91
Dry arc resistance	ATSM D495, seconds	92
Thermal conductivity BTU in/hr/ft ² (w/m ° K)	ASTM C518	0.63 (0.09)

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any application. All data relating to suitable uses and description information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The Company holds no legal or contractual responsibility for information supplied

