

Specification Sheet / 01 HT800 Silicone Rubber Sponge



ISO9001, ISO14001, ISO45001
Certificate Ref: 11738

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, offering the lightness of a foam, but with the enhanced sealing capabilities that are more typical of traditional sponge rubber. HT800 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.

Features and Benefits

Excellent memory and low stress relaxation reduces 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	ASTMD1056	22
Compression set %	ASTMD1056 Test D @70c	<1
Compression set %	ASTMD1056 Test D @100c	<5
Tensile strength (psi)	ASTM D412	45
Elongation %	ASTM D412	80
Toxic Gas Emmisions	SMP-800C	Pass
Compression Deflection (psi)	ASTM d1056 25% deflection	9
Reccomended Intermittent high temp (°C)	Internal	250
Reccomended use temp (°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 at 4 minutes	<50
Smoke Density(Ds)	ASTM E662 tested at 1.5 minutes	<20
Toxic Gas Emissions Rating	SMP-800C	Pass
Water Absorbtion	Internal: 24 hrs @ 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
Dielectric Constant	ASTM d150	1.42
Dielectric Strength	ASTM d149 Volts/mil	91

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Dry Arc Resistance	ASTM d495, Seconds	92
Thermal Conductivity BTU in/hr/ft2 (w/m °K)	ASTM C518	0.63 (0.09)

Change Control Date	Change
05/05/2016	Created



The above figures are average values.
We recommend that you examine any material you select to ensure its suitability for your application.
Tolerance(s) applied in accordance with ASG specification No W1007 (<https://bit.ly/3nKm6Hj>) unless otherwise stated.
Our standard terms and conditions of trading (<https://bit.ly/3b3mThw>) apply at all times.

