

Specification Sheet / 01

A336 HT800 Silicone Rubber Sponge



Certificate No. 11738-EMS-001
ISO 9001:2015 ISO 14001:2015

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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Specification Sheet / 02

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| | | |
|--|--------------------|-------------|
| Dry Arc Resistance | ASTM d495, Seconds | 92 |
| Thermal Conductivity BTU in/hr/ft ² (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.

