

## Technical Data Sheet Silastomer<sup>®</sup> 343

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### Product Description

**Hernon<sup>®</sup> Silastomer<sup>®</sup> 343** is a high performance, single component, ready to use adhesive / sealant. It has a paste-like consistency, which cures to a tough, resilient and durable silicone rubber when exposed to moisture in the air. Designed to provide excellent oil resistance and can be used as a form in place gasket. It will adhere to clean metals, glass, most types of wood, silicone resin, vulcanized silicone rubber, natural and synthetic fiber, ceramic, many plastics and painted surfaces.

**Silastomer<sup>®</sup> 343** provides excellent resistance to moisture, weathering, vibration, ozone and extreme temperatures. It can be applied in surface temperatures of 0°F to above 120°F with no loss in performance. Fully cured **Silastomer<sup>®</sup> 343** can withstand extended periods at temperatures up to 400°F.

### Product Benefits

- One component – no mixing
- Room temperature cure
- Non-sagging for use on horizontal, vertical or overhead surfaces
- Prevents leakage in engines, transmissions, water pumps, rear axles and oil pans.
- Excellent high and low temperature resistance
- VOC compliant - low outgassing
- Excellent choice for use around sensitive electronics and sensors – non-corrosive to most substrates.
- Excellent weatherability
- Excellent chemical resistance
- Versatile electrical insulation
- Cured rubber is non-toxic

### Typical Properties (Uncured)

Property	Value
Base	Oxime Silicone
Color	Black
Viscosity	Paste
Specific Gravity	1.02
Flash Point	See MSDS

### Approvals

When fully cured, **Silastomer<sup>®</sup> 343** meets requirements for Mil Spec MIL-A-46106B Type I. Also FDA compliant

with Regulation Title 21 CFR 175.105 where incidental food contact may be involved.

### Typical Properties (Cured)

#### Physical Properties

Property	Value
Hardness, Shore A	18-28
Elongation, %, ASTM D412	≥ 450
Modulus @ 100%, psi, ASTM D412	80-100
Tack Free Time at 77°F, minutes	< 15
Tensile Strength at break, ASTM D412	225-275 psi
Working temperature range	-50 to 400°F

#### Electrical Properties

Property	Value
Dielectric Strength, KV/mm ASTM D149	≥ 18
Dielectric Constant @ 50 Hz ASTM D150 1 kHz 1 MHz	2.7 2.7 2.7
Dissipation Factor @ 50 Hz ASTM D150 1 kHz 1 MHz	0.0009 0.0004 0.0002
Volume Resistivity, Ω·cm ASTM D257	2 x 10 <sup>14</sup>
Surface Resistivity, ASTM D257	3 x 10 <sup>16</sup>

### Typical Environmental Resistance

**Silastomer<sup>®</sup> 343** exhibits excellent performance where a long term, permanently flexible bond is required.

### Surface Preparation

All surfaces should be clean and dry. It is recommended that surfaces to be bonded be solvent wiped with acetone or mineral spirits. Do not use alcohol. Allow surface to dry thoroughly before applying sealant.

### Precautions For Gasketing Applications

Do not use **Silastomer<sup>®</sup> 343** for gasketing carburetors, cylinder heads or where constant contact with fuels may occur. Material will develop excessive swell and loss of mechanical properties.

Do not use **Silastomer<sup>®</sup> 343** as a sealant for concentrated solutions of acetic, hydrochloric, nitric or sulfuric acids. This formulation is very resistant to oil and water but is not suitable for continuous use in acidic environments.

**Directions For Use**

- Ready to use. Requires no mixing or additives.
- Moisture curing begins immediately after the product is exposed to air, therefore assemble parts within a few minutes after the product is dispensed.
- Sealant starts to skin over in approximately 10 minutes. Reaches full cure in 24 hours and maximum adhesion in 7 days.

**General Information**

**For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).**

**Storage**

**Silastomer® 343** should be stored in a cool, dry location in unopened containers at a temperature between 45°F to 90°F (7°C to 30°C) unless otherwise labeled. To prevent contamination of unused material, do not return any material to its original container.

**Dispensing Equipment**

**Hernon®** offers a complete line of semi and fully automated dispensing equipment. Contact **Hernon® Sales** for additional information.

These suggestions and data are based on information we believe to be reliable and accurate, but no guarantee of their accuracy is made. HERNON MANUFACTURING, INC. shall not be liable for any damage, loss or injury, direct or consequential arising out of the use or the inability to use the product. In every case, we urge and recommend that purchasers, before using any product in full scale production, make their own tests to determine whether the product is of satisfactory quality and suitability for their operations, and the user assumes all risk and liability whatsoever, in connection therewith. Hernon's Quality Management System for the design and manufacture of high performance adhesives and sealants is registered to the ISO 9001 Quality Standard.