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AS159 Rev. D 12-30-14

AS159 (FAA-PMA Approved)

Product Description:

AS159 is a high strength, fast curing, acetoxysilicone RTV adhesive rubber developed for applications requiring fast development of physical properties and excellent adhesion. AS159 is a 1 part high temperature silicone that when cured resists weathering, ozone, moisture and UV. AS159 works well in manual and automatic dispensing equipment.

Product Features:

- Fast Room Temperature Cure.
- Thixotropic paste.
- Excellent unprimed adhesion to plastic, metal and glass.
- Heat accelerated instant cure capability.

Curing:

RTV stands for Room Temperature Vulcanization, which means to cure at room temperature. Curing speed can be accelerated, to some degree, with the increase of humidity around the RTV compound. For more information on this subject please contact us.

Replacement For:

GE 159, RTV 159, GE 106, RTV 106 (Momenite RTV159, RTV106) and Dow 736, RTV 736 (Dow Corning 736). Tested and conforms to the requirements of MIL-A-46106 Group III, Type I material.

Packaging:

Available in standard 2.8 fl. oz. tubes and 10.3 fl. oz. cartridges. Other size packaging available upon request.

Shelf-life:

Sealed containers 1 year when stored in a cool dry area.

High Strength Fast Cure Adhesive Sealant

Typical Properties:

UNCURED

| | |
|----------------------------------|-------------------|
| Color: | Red |
| Viscosity, cps | 500,000 |
| Specific Gravity | 1.14 |
| Consistency | Thixotropic paste |
| Working time, mins. @ R.T. | 4 |
| Tack Free Time, mins. @ R.T. | 12 |
| Application Rate, 90 psi, g/min. | 175 |
| Solids | 98% |

CURED – ROOM TEMPERATURE

| | |
|-------------------------|-----|
| Cured – 72 hrs. @ R.T. | |
| Tensile Strength, psi | 700 |
| Elongation, % | 750 |
| Durometer, Shore A | 38 |
| Peel Strength, lbs/in | 50 |
| Tear Strength, lbs/in | 100 |
| Lap Shear Strength, psi | 330 |

Electrical

| | |
|----------------------------|----------------------|
| Dielectric Strength, v/mil | >500 |
| Dielectric Constant | 2.8 |
| Dissipation Factor | 0.001 |
| Volume Resistivity, ohm-cm | 2.0×10^{14} |

Thermal

| | |
|---|---------------------|
| Brittle Point, °F (°C) | -68 (-55) |
| Maximum Continuous Operating Temperature, °F (°C) | 572(300) |
| Thermal Conductivity Btu/hr/ft ² , °F/ft | 0.0005 |
| Coefficient of Expansion in/in/°F | 20×10^{-5} |

Properties listed herein are actual target data points only. User must determine proper usage and applicability.
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