

AS159 (FAA-PMA Approved)

Product Description:

AS159 is a high strength, high temperature, acetoxycure silicone 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:

- Room Temperature Cure.
- Thixotropic paste.
- Excellent unprimed adhesion to plastic, metal and glass.

Curing:

RTV stands for Room Temperature Vulcanization, which means to cure at room temperature. Typical utilization involves dispensing in open air and after exposure to ambient humidity, a room temperature cured rubber is formed.

Replacement For:

GE 159, RTV 159, GE 106, RTV 106 (Momentive RTV159, RTV106) and Dow 736, RTV 736 (Dow Corning 736). MIL-A-46106* Group III, Type I related materials.

High Temperature High Strength 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.	15
Application Rate, 90 psi, g/min.	330
Solids, %	95
VOC, %	2.36

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	>400
Dielectric Constant	2.8
Dissipation Factor	0.001
Volume Resistivity, ohm-cm	2.0×10^{15}

Thermal

Brittle Point,	< -62 °C
Maximum Continuous	
Operating Temperature, °F (°C)	500(260)
Maximum Intermittent	
Operating Temperature, °F (°C)	600(315)
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. This document contains proprietary information and is not to be transmitted, reproduced or disclosed to anyone without written permission of Aerospace Sealants, LLC.



Aerospace Sealants, LLC
4550 E. McKellips Rd., Ste.112
Mesa, AZ 85215

AS159 Rev. J 2-14-19

Shelf-life:

In sealed containers, 1 year when stored in a cool dry area.

Packaging:

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

Limitations:

*Testing for referenced MIL Spec is performed in accordance with Aerospace Sealants quality test methods, laboratory conditions, and procedures, frequency and sampling, which are not necessarily identical with the methods, conditions, procedures, frequency and sampling stated or referenced in the listed specification. Any certification will be limited to listed properties and will not imply or state conformity to any other aspect of the referenced specification, including but not limited to marking, packaging, bar coding, testing, or sampling.

*Properties listed herein are actual target data points only. User must determine proper usage and applicability.
This document contains propriety information and is not to be transmitted, reproduced or disclosed to anyone without written permission of Aerospace Sealants, LLC.*