

PRODUCT SPECIFICATIONS SHEET

<u>CAT NO.</u>	<u>PRODUCT NAME</u>
19-155	Electronic Grade Silicone Sealant/Adhesive

DESCRIPTION:

A one-part moisture-curing RTV silicone sealant/adhesive that is non-slump and cures to form a tough, permanently flexible rubber. Can be used for protecting, sealing and insulating corrosion-sensitive electronic and electrical materials such as copper, brass, silver, etc. It has good dielectric properties, has high surface resistivity, resists electrical tracking and repels water to protect electrical properties.

TYPICAL PROPERTIES:

Color: Clear

<u>Characteristic</u>	<u>Test Method</u>	<u>Results</u>
Shore A Hardness	ASTM D2240	30 ± 2
Tensile @ Break	ASTM D412	250 ± 25 psi
Elongation @ Break	ASTM D412	400 ± 25%
Modulus @ 100% Elongation	ASTM D412	90 ± 10 psi
Tear Strength	ASTM 624 (Die B)	30 ± 10 ppi
Adhesion Strength (Peel)	TT-S-001543, 3.5.9	
Glass		10 ± 2 ppi
Aluminum (Primed)		8 ± 2 ppi
Mortar (Primed)		12 ± 2 ppi
Sag or Slump	TT-S-001543, 3.5.2	Nil
Shrinkage (Weight Loss)	TT-S-001543, 3.5.5	<5%
Extrusion Rate	1/8" orifice @ 50 psi	130 ± 5 gm/min.
Service Temperature		-18°C to +50°C 0°F to +120°F
Tack Free Time	TT-S-001543, 3.5.6	15 minutes
Time to Full Cure (1/8" Bead)		48 hours
Joint Movement Capability	4:1 Safety Factor	±25%
Color Retention		Excellent
Weatherability		Excellent
Reactivity of Byproducts		Non-corrosive to most substrates
Dissipation Factor	ASTM D150	50 Hz – 0.0009 1 kHz – 0.0004 1MHz – 0.0002
Dielectric Constant	ASTM D150	50 Hz – 2.7 1 kHz – 2.7 1 MHz - 2.7
Dielectric Strength	ASTM D149	18

CURE:

The cure mechanism begins as soon as the sealant comes in contact with the air. At conditions of 25°C and 50% relative humidity, the sealant will skin in 15 minutes and fully cure within 24 hours (1/8" bead). Higher humidity accelerates cure. Tooling should be done before skinning takes place. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is lengthened by the degree of confinement.

MILITARY SPECIFICATIONS:

Meets the requirements of MIL-A-46146A Type 1.

FDA REGULATIONS:

Is permitted under regulations of the Food and Drug Administration where incidental food contact might be involved. FDA Regulation Number is 177.2600.

SHELF LIFE:

12 months