



# EAL SELF-FUSING SILICONE TAPE MINIMUM SPECIFICATIONS

Includes Black, Clear, and Colours

This chart is a list of **minimum** requirements for self-fusing silicone tape in respect to each test method and not reflective of actual results.

Self-fusing silicone tapes shipped from EAL are **required** to meet and do typically exceed these requirements.

PROPERTIES	TEST METHOD	PERFORMANCE
OPERATING	CONTINUOUS	-54°C TO +260°C (-65°F to +500°F)
TEMPERATURE RANGE	INTERMITTENT	-65°C TO +260°C (-85°F to +500°F)
DIELECTRIC STRENGTH	ASTM D-149	0.010" - 0.030" 400 VPM
<b>MINIMUM</b>		0.040" 300 VPM
Short TIME		0.050" 275 VPM
(1/4: Electrodes)		0.060" 250 VPM
		0.070" - 0.080" 200 VPM
DIELECTRIC CONSTANT, 1 KHZ		2.95
DISSIPATION FACTOR, 1 KHZ		< .0004
VOLUME RESISTIVITY	ASTM D-257	3 x 10 <sup>14</sup> OHM/CM
COLD BRITTLE POINT, MAX	ASTM D-2137	-65°C
WATER ABSORPTION	FED, STD, 601, METHOD 6251	3% MAX BY WEIGHT
TENSILE STRENGTH	ASTM D-412	700 PSI MINIMUM
ULTIMATE ELONGATION	ASTM D-412	300% MINIMUM
AGING PROPERTY	ASTM D-412	
Retention (100 Hrs @ 500°F)		
TENSILE		75%
ELONGATION		50%
TEAR RESISTANCE		85 PSI
DUROMETER HARDNESS		50 SHORE DUROMETER
		(ROOM CURED 24 HOURS)
TOLERANCES		
THICKNESS		+/- .002"
WIDTH		+/- .0625"

*NOTE: (1/2" - 1 1/2") meets or exceeds U.S. Military Spec AA-59163 (formerly MIL I-46852C) Type II, Triangular Guideline and Type I, Rectangular Self-Fusing Silicone Rubber Tape.*