

## 906-57

### A Two-Component Urethane Encapsulant

#### Description:

906-57 is a tough two-component high performance, abrasion resistant, room temperature curing urethane encapsulant with excellent electrical properties.

#### Advantages:

906-57 is a tough room temperature curing elastomer that contains no mercury, TDI or MOCA. Meets the requirements of MIL-S-8516

#### Applications:

906-57 is widely used encapsulating electrical components. 906-57 was conveniently formulated for room temperature hand-batch processing.

#### Physical Properties:

	<u>Resin</u>	<u>Hardener</u>
Color:	Unpigmented	Unpigmented
Specific Gravity (g/cc):	1.11	1.00
Mix Ratio		
(By Weight):	100.0	100.0
(By Volume):	90.0	100.0

#### Shelf Life: (Sealed containers)

Six Months @ 25°C (both A+B).

#### Instructions:

Agitate components prior to use to ensure that they are homogeneous. Combine the Resin and the Hardener in the ratio listed above. Mix by hand or mechanical mixer until material is uniform in appearance.

<u>Working Time:</u>	<u>De-mold</u>	<u>100% Full Cure</u>
~20 ± 5 minutes	6 hours	24 hours @ Room Temp + 16 hours @ 160°F

#### Cured Properties:

Shore A, measured @ 25°C (48 hours):	40
Specific Gravity:	1.05
Ultimate Tensile, (psi):	400
Tear Split, (pli):	75
Elongation at break, (%):	200
Volume Resistivity, (Ω-cm):	2.0x10 <sup>16</sup>
Surface Resistivity, (Ω-cm):	2.8x10 <sup>16</sup>
Dielectric Strength, @25°C (volts/mil):	550
Dielectric Constant, @ 25°C:	2.5
Dissipation Factor, @25°C (1kHz):	0.015

#### Storage and Handling:

Normal storage and handling is at room temperature. Curative once opened should be stored under a nitrogen blanket to prolong shelf life. Use standard mixing and housekeeping procedures to minimize the risk of spills and contact with individuals.

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.