

## ADDY-SIL 353 SILICONE GEL ENCAPSULANT

### ● PRODUCT DESCRIPTION

ADDY-SIL 353 is a two component, water clear, electronic grade, silicone gel encapsulant. It is designed for clear potting, encapsulation of completed circuit boards, hybrid circuits, and power supplies, where flexibility, repairability, and high temperature resistance are required. Can be used in automotive, telecommunications, transformers, cable end sleeves, capacitors, coils, IGBT, insulators/ bushings, transducers, and (re-enterable) telephone cable splicers. Re-healable in cured state.

### ● CURING PROPERTIES

Pot Life @ 25°C :	30 min.
Cure Time @ 25°C :	24 hours

### ● UNCURING PROPERTIES

Base	Silicone
Color	Optical Clear
Specific Gravity	1
Viscosity (cps)	900-1100
Mix ratio (by weight/volume)	100:100

### ● CURED PROPERTIES

Hardness Shore	N/A
Operating Temperature (°C)	-65°C to 200°C
Shrinkage on Cure	<1%
Tg	-64°C
Weight Loss, (1 week at 150°C)	0.25%
Coefficient of Thermal Expansion	55 x 10 <sup>-4</sup> /°C
Volume Resistivity	
100 V	2.5 x 10 <sup>15</sup> Ω-cm
500 V	1.9 x 10 <sup>15</sup> Ω-cm
1000 V	1.4 x 10 <sup>15</sup> Ω-cm
Dielectric Strength (1.6 mm thickness):	25 kV/mm
NASA Outgassing:	
	0.27 %TML
	0.13% CVCM
	0.00% WVR

### ● INSTRUCTION FOR USE

Shelf life: Store in original, unopened containers for 12 months at room temperature.

