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TECHNICAL DATA SHEET 688

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HV100 A & B

Silicone Gel Encapsulant

DESCRIPTION

HV100 is a clear silicone gel. The product has many useful features which make it suitable for various applications. The inertness of the cured Silicone polymer makes it especially useful for medical and electronic applications. The low modulus and durometer of the HV 100 allow its use as an encapsulant on sensitive optoelectronic devices.

PRODUCT FEATURES

- Very Soft, Low Modules Cure
- Low Viscosity
- Clear and Colorless
- Wide Temperature Use Range
- Easy to Use 1:1 Mix Ratio
- No Volatile Emissions
- Long Pot Life

TYPICAL UNCURED PROPERTIES

Values Approximate

	HV100A	HV100B	HV100A&B
Color	Clear, Colorless	Clear, Colorless	Clear, Colorless
Viscosity, CPS	300	300	300
Specific Gravity	0.98	0.98	0.98

PROCESS PARAMETERS

Mix Ratio

	Part A	Part B
By Weight	100	100
By Volume	100	100

CURE CYCLE

@25°C	Pot Life > 4 hours
@60°C	Cure time 60 minutes
@80°C	Cure time 30 minutes
@100°C	Cure time 10 minutes

TYPICAL CURED PROPERTIES

Values Approximate

Cured Appearance	Clear, Colorless Tack Free Gel
Durometer	<10A
Temperature Range of Use	-80°C through 200°C
Transmittance	>99% @ 450 nm

APPLICATION

Mix the components together avoiding air entrapment as much as possible. This can be done by adding the components to a small clear bag with a zipper type closure, eliminating the air, sealing the bag and kneading the product together for approximately 2 minutes. A small cut in the corner of the bag can then be used to extrude the mixed product.

If mixed in a cup, allow the mixture to de-air prior to use.

STORAGE AND HANDLING

Shipment: Room temperature

Storage: Store at 25°C for up to 12 months

North America (United States)

1 (800) 523-2575 / (215) 343-6484

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