

Technical Data Sheet



**Havard Epoxy
Systems**

OEP 100-HC

Spectrally Transparent Epoxy
For Reference Only

Date: January 3, 2018 **Revision:** 001.1

Recommended Cure: 55°C / 6 hours

Components: Two
Mix Ratio by weight: 4.5: 1
Specific Gravity: 1.17 : 0.98
Pot Life: 1-2 hours
Shelf Life: 1 year

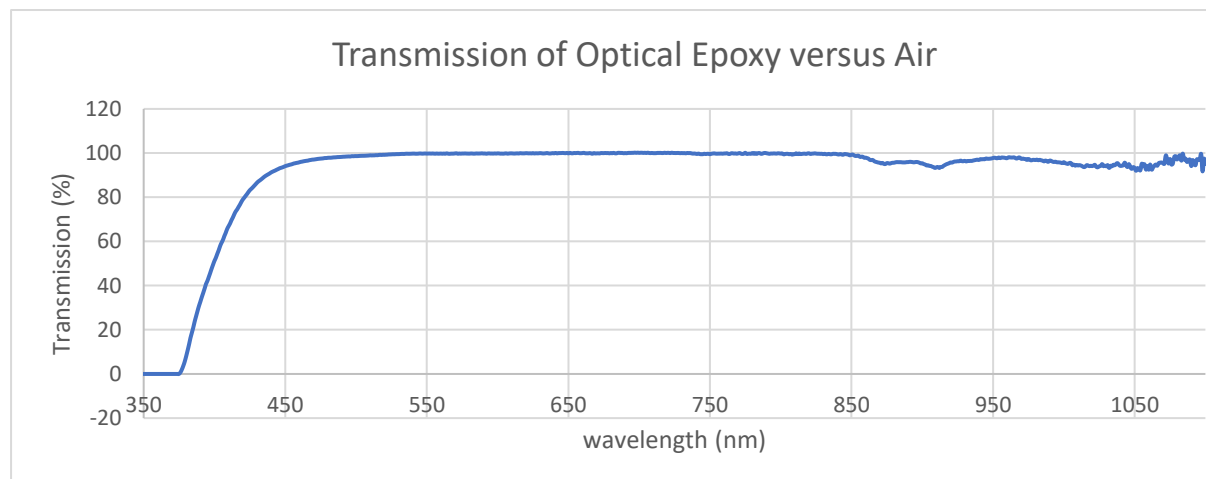
Keep containers tightly closed during storage. Store in cool dry conditions.

Physical Properties

Color:	Part A: Clear / Colorless	Part B: Clear / Colorless
Consistency:	Pourable Liquid	
Viscosity (25°C):	4300cP mixed	
Shore D Hardness:	86	

Optical Properties (23°C)

Spectral Transmission:



Uses and Application Notes:

Uses:

Semiconductor: optical glob top or underfill; adhesion to common wafer passivation, solder mask and flex circuits; compatible with LED die, Si, GaAs.

PCB: general potting and protection over FR4, flex, or ceramic PCBs.

Fiber Optic: Adhesive for glass and plastic fibers; wicking into fiber bundles used in patch cords, endoscopes or sensor devices; adhesive/seal/encapsulant used for fiber packaging and components; transmission of IR up to 1100 nm; terminating fibers into ferrules; fiber coupling and splicing.

Opto-electronic: LCD/LED adhesive for laminating glass layers; adhesion to PET plastic; general potting, encapsulation, and protection; spectral transmission in VIS and IR light; adhesive/encapsulant for VCSEL's packaged devices; resisting yellowing per ASTM D1925; adhesive for precision optics including lens, prism, beam splitter cubes, mirrors, and diodes, found in medical, university, or research communities.

Application Notes:

- Ensure that sample is thoroughly mixed to prevent dispersion in the cured sample.
- We recommend using centrifugal spin degassing for optimal results.
- No more than 50g of epoxy should be prepared at one time.
- Bond lines over 3mm may take additional time to cure when used for potting or encapsulation.
- Temperatures less than 21°C (70°F) and/or relative humidity over 40% may affect cure times.

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