

TYPICAL PROPERTIES

(To be used as a guideline only)

NUMBER OF COMPONENTS Two

MIXING RATIO PARTS BY WEIGHT

Part "A" 100

Part "B" (hardener) 35

NOTE: If Part "A" crystallizes in storage, merely place container in a warm oven (without cap) until crystallization disappears. Allow to cool to room temperature before mixing with the Part "B" (hardener).

CURE SCHEDULE (minimum bond line temperature - use one of the following)

80°C 1 hour

Room Temperature 3 days

PHYSICAL PROPERTIES

Color (before and after cure) clear

Consistency flowable liquid

Specific Gravity 1.08

Viscosity (@ 23°C/100 rpm) 125 cPs

Glass Transition Temp. (Tg)

cured @ 80°C/1 hour 60°C

Coefficient of Thermal Expansion

Below Tg 55×10^{-6} in/in/°C

Above Tg 203×10^{-6} in/in/°C

Shore D Hardness 75

Lap Shear Strength (Al to Al) 2,600 psi

Degradation Temperature 328°C

Outgas @ 300°C 1.18%

@ 200°C 0.85%

Moisture Resistance (1 hr/100°C) 1.58% gain

Maximum operating temperature 125°C

OPTICAL PROPERTIES

Index of Refraction 1.5130

Spectral Transmission

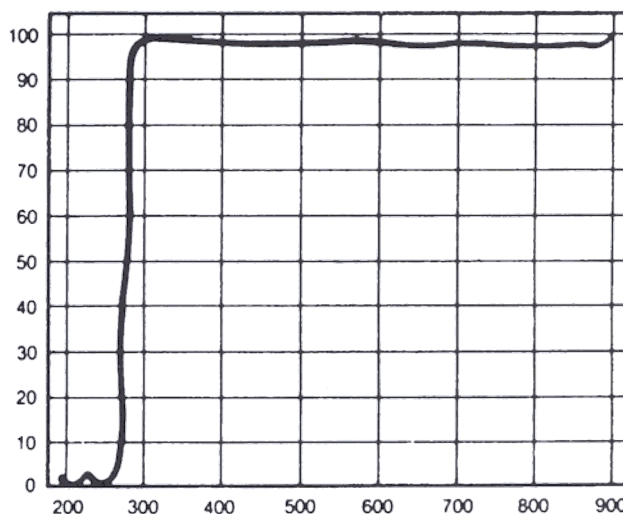
100% transmission 300 - 900 nm

POT LIFE 12 hours

SHELF LIFE

One (1) year when stored at room temperature. Keep container closed when not in use.

REFRIGERATION IS NOT REQUIRED



EPO-TEK 301-2FL

INSTRUMENT: PE320
SOURCE: W/Deut.
BANDPASS: Variable

REFERENCE: Quartz
SAMPLE: .0015" between two quartz plates

EPO-TEK 301-2FL is a two component, optical epoxy that can be cured at room temperature or with heat. The mixed epoxy provides a long (12 hour) pot life, low viscosity, excellent optical and handling characteristics.

Designed for fiber optic and optical applications where stress sensitive properties are paramount to the component or device being bonded, coated or potted. EPO-TEK 301-2FL is a compliant adhesive that will be resistant to impact or vibrations.

Recommended for lens bonding, potting optoelectronic displays, fiber-optic bundles (glass or plastic) as well as optical filters. It may also be used for impregnating wooden or porous objects for artifact restoration. Adhesion to glass, quartz, metals, wood and most plastics is very good.