Norland Adhesive NOA87

Norland Optical Adhesive 87 is an adhesive that will cure optically clear when exposed to long wavelength ultraviolet or visible light (blue-violet). The adhesive has low viscosity and meets the Bellcore specifications of 85C/85RH for 2000 hours. NOA 87 is recommended for bonding glass or plastics. This adhesive can be cured by ultraviolet light between 315 to 400 nanometers and visible light between 400 to 420 nanometers. The peak absorption wavelengths are 325, 365 and 400 nanometers. Minor absorption wavelengths are 410 and 420 nm. Full cure requires 3.5 Joules/cm 2.

FT POLYMER SAS
122 Chemin de la cavée - 78630 Orgeval
Tél : 01 39 13 20 82 / Fax : 01 39 13 33 79
www.ftpolymer.fr

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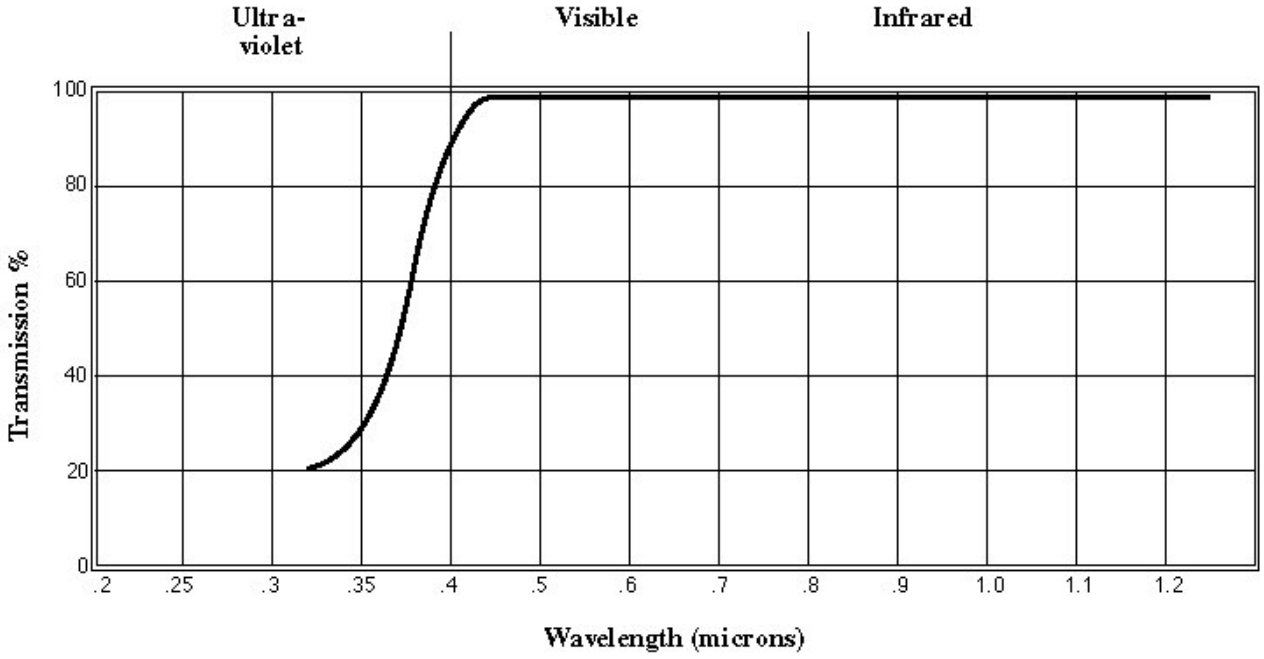
When fully cured, NOA 87 has very good adhesion and solvent resistance, but it has not reached its optimum adhesion to glass. This will come with aging over a period of about 1 week in which a chemical bond will form between the glass and adhesive. This optimum adhesion can also be obtained by aging at 50 0 C for 12 hours.

NOA 87 can withstand temperatures before aging from -15C to 60C when used for glass bonding. After aging, it will withstand temperatures from -125C to 125C.

Typical Properties of NOA 87 :

Refractive Index	1.52
Temperature Range (after aging)	-125C to 125C
Viscosity @ 25C	900-1500cps
Elongation at Failure	13%
Modulus (PSI)	209,700
Tensile Strength	4,880
Hardness - Shore D	50

Spectral Transmission of NOA 87 :



Shelf life of the liquid is a minimum of 6 months from the date of shipment, refer to the package label for the actual expiration date, if stored in a cool (5-22° C), dark place in the original container. If refrigerated, allow the adhesive to come to room temperature prior to use.

Care should be taken in handling this material. The Material Safety Data Sheet should be read for this product. Prolonged contact with skin should be avoided and affected areas should be washed thoroughly with copious amounts of soap and water. If adhesive gets into eyes, flush with water for 15 minutes and seek medical attention.

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