Norland Products

Norland Optical Adhesive 170

Norland Optical Adhesive 170 is a yellow tinted liquid adhesive that will cure to a clear film when exposed to long wave ultraviolet and/or visible light. NOA 170 is recommended for bonding glass to glass. Adhesion is also good to celluloascee tate butyrate and polycarbonate. This adhesive when fully cured is very rigid and brittle. NOA 170 can be cured with ultraviolet light from 315nm to 395nm. Peak absorption is 365nm. It can also be cured with visible light from 400nm to 450nm. Full cure requires 6 Joules/$cm^{2.}$ If used as a coating or exposed to air the adhesive will need to be cured under a nitrogen atmosphere to prevent the surface from remaining tacky due to oxygen inhibition.

Typical Properties of NOA 170

Refractive Index	1.70
Temperature Range	-15° C to 100° C
Viscosity @ 25C	4,400-5,500 cps
Elongation at Failure	1.3%
Modulus of Elasticity (psi)	90,200
Tensile Strength (psi)	863
Shore D	75

Keep NOA 170 in a cool (5-22 ° C) dark place. If refrigerated, allow the adhesive to come to room temperature before using.

Care should be taken in handling this material. The 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 the adhesive gets into eyes, flush with water for 15 minutes and seek medical attention.