

Noelle Industries, Inc.

Adhesives, Coatings, and Conductives

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TECHNICAL DATA

NOELLE UV 47-2

One Component UV Curable Adhesive

Description:

Noelle UV 47-2 is a one component, UV curable, sealing adhesive. This product provides strong adhesive bonds to a variety of plastics as well as to glass.

Advantages:

Noelle UV 47-2 cures rapidly to an extremely durable adhesive when exposed to ultraviolet radiation of sufficient intensity. Sealing and bonding applications can be completed in seconds. Noelle UV 47-1 is the same as 47-2, but contains 0.005 inch diameter glass spacer beads.

Applications:

Noelle UV 47-2 enables easy assembly of components with close fitting tolerances.

Uncured Properties:

Color: Clear
Composition Urethane Acrylate
Toxicity Low
Specific gravity 1.16 g/cc
Viscosity (cP @ 25°C) 250 to 450

Storage and Shelf Life: (Sealed container)

One year when stored below 90°F.
This material incorporates a photoinitiator that can react with visible light. Do not leave container open for prolonged period of time.

UV Light Cure Data:

Intensity 100mw/cm²
Spectral Output 300 – 500 Nanometers
Optimum Wave 365 Nanometers

Bondline Thickness (inches)

0.005
0.010
0.125

Exposure Time

5 seconds
10 seconds
30 seconds
Faster cure with higher intensity

Cured Properties:

Shore D Hardness, measured @ 25°C:	65 to 75
Lap Shear, Tensile Strength Al/Al ASTM D-1002:	>1000 psi.
Shrinkage upon cure	<1%
Elongation %	<50

Handling Recommendations:

Avoid prolonged contact with skin. Rubber gloves are advised. If swallowed do not induce vomiting. Call a physician immediately. In the case of eye contact flush eye with clear cold water for 15 minutes then consult a physician.

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.