



TECHNICAL DATA SHEET

Noelle Industries, Inc.

Adhesives • Coatings • Conductives • Encapsulants

NOELLE 905-11

One Component UV Curable Adhesive

Description:

Noelle 905-11 is a one component, UV curable, sealing adhesive and potting compound. This product was developed for bonding a variety of plastics. Bond Strengths on polycarbonate and rigid PVC usually exceed the strength of these substrates. Bond lines exhibit low shrinkage during the cure process. Noelle 905-11 is abrasion and chemical resistant.

Advantages:

Noelle 905-11 cures rapidly to an extremely durable, hard, chemically resistant material when exposed to ultraviolet radiation of sufficient intensity. Sealing and bonding applications can be completed in seconds.

Applications:

Noelle 905-11 enables easy assembly of components with close fitting tolerances and is recommended for applications involving small gaps less than 0.25mm.

Uncured Properties:

| | |
|-----------------------|-------------------|
| Color: | Clear |
| Composition | Urethane Acrylate |
| Toxicity | Low |
| Specific gravity | 1.11 g/cc |
| Viscosity (cP @ 25°C) | 34,000 to 42,000 |
| Viscosity (cP @ 60°C) | 2,000 to 4,000 |

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/cm ² |
| Spectral Output | 300 – 500 Nanometers |
| Optimum Wave | 365 Nanometers |

Bondline Thickness (inches) Exposure Time

| | |
|-------|------------|
| 0.005 | 5 seconds |
| 0.010 | 10 seconds |
| 0.125 | 30 seconds |

Faster cure with higher intensity

Cured Properties:

| | |
|---|------------|
| Shore D Hardness, measured @ 25°C: | 65 to 75 |
| Lap Shear, Tensile Strength AI/AI ASTM D-1002: | >1000 psi. |
| Shrinkage upon cure | <1% |
| Elongation % | <50 |
| Thermal Range ° C | -54 to 177 |

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.

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