



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 (g/cc): 1.11
Viscosity @ 25°C (cP): 34,000 to 42,000
Viscosity @ 60°C (cP): 2,000 to 4,000

Storage and Shelf Life: (Sealed container)

Shelf Life is one year when stored below 90°F. This material incorporates a photo initiator that can react with visible light. Do not leave container open for prolonged period, of time.

UV Light Cure Data:

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

Bondline Thickness (inches):	0.005	0.010	0.125
Exposure Time (seconds)	5	10	30
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 (psi): >1000
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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