



TECHNICAL DATA SHEET

Noelle Industries, Inc.

Adhesives • Coatings • Conductives • Encapsulants

NOELLE 905-10

One Component UV Curable Adhesive and Encapsulant

Description:

Noelle 905-10 is a UV curable, adhesive and encapsulant which provides excellent adhesion to glass, plastics and metals. Noelle 905-10 offers low cure shrinkage, good flexibility, low odor, low toxicity and skin irritation, and no oxygen inhibition. After UV exposure, a heat post cure will cure shadowed areas.

Advantages:

Noelle 905-10 offers adhesion to a wide variety of substrates and good electrical properties. Noelle 905-10 may also be post cured using heat to cure shadowed areas and offers high chemical and solvent resistance.

Uncured Properties:

Color: Clear
Specific gravity (g/cc): 1.14
Viscosity @ 25°C (cP) 12,000

Storage and Shelf Life: (Sealed container)

Six months when stored at or below 25°C. This material incorporates a photo initiator that can react with visible light. Do not leave container open for prolonged period of time.

Cure Schedule:

This UV curable adhesive has a maximum absorption UV wavelength range of 300nm to 400nm. The UV exposure range from 10-60 seconds is dependent upon the depth of the product. A heat cure following the UV exposure can be used as a secondary cure mechanism where all adhesive cannot be cured with UV light. UV cure must be done prior to heat cure.

Secondary Heat Cure

Cure Temperature:	100°C	150°C
Cure Time (minutes):	10	5

Cured Properties:

Shore D Hardness, measured @ 25°C: >75
Tensile Strength
AI/AI ASTM D-1002 (psi): 6400
Shrinkage upon cure: <3%

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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