



Registered to
ISO 9001

Noelle Industries, Inc.

Adhesives • Coatings • Conductives • Encapsulants

NOELLE 810-11

A Two Component Transparent Silicone Dielectric Gel

Description:

Noelle 810-11 System is a soft, transparent, two component (A + B) high performance, un-thickened, fast room temperature curing, silicone dielectric gel adhesive. Noelle 810-11 System is designed for use in applications that require a highly flexible, shock resistant, and cushion coat material for sensitive or fragile components or fine electrical wires.

Advantages:

Noelle 810-11 mixed system features a low mixed viscosity for ease of use in specific applications, also features excellent air release properties. This mixed system does not harden appreciably with age as does many other commercially available materials of this type. Noelle 810-11 offers excellent adhesion to a wide variety of substrates and has a fast working life along with good electrical properties.

Physical Properties:

| | <u>Resin</u> | <u>Hardener</u> |
|-------------|--------------|-----------------|
| | 810-11A | 810-11B |
| Color: | Clear | Clear |
| Mix Ratio | | |
| (By Volume) | 1.0 | 1.0 |
| (By Weight) | 100.0 | 100.0 |

Shelf Life: (Sealed containers)

Twelve months @ 25°C (both A+B). Hand agitation of the Resin and Hardener components are recommended after long standing to insure best results.

Instructions:

Combine the Resin and the Hardener in the ratio listed above. Mix by hand or mechanical mixer until material is uniform in appearance.

Cure Schedules:

Pot Life (100 g): = 20 min.

Cure Temp:

| | | | |
|--------|---------|---------|---------|
| 25°C | 43°C | 66°C | 93°C |
| (77°F) | (110°F) | (150°F) | (200°F) |

Cure Time:

| | | | |
|-------|---------|---------|--------|
| 1 day | 4 hours | 2 hours | ½ hour |
|-------|---------|---------|--------|

Cured Properties:

| | |
|-------------------------------------|----------------------|
| Penetrating Value, measured @ 25°C | 117mm@60min |
| Volume Resistivity, Ohm/cm @ 25°C: | 7 x 10 ¹⁵ |
| Dielectric Constant @ 1 MHz @ 25°C: | 2.85 |
| Dielectric Strength, volts/mil | 390 |
| Dissipation Factor @ 1 MHz @ 25°C: | 0.002 |
| Operating Temperature Range: | -45°C to +150°C |

Storage and Handling:

Normal storage and handling is at room temperature. Use standard mixing and housekeeping procedures to minimize the risk of spills and contact with the surrounding materials.

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.

• 76 Treble Cove Road, Building # 3, Unit C, North Billerica, MA 01862

• Phone: (978) 439-9841 • Fax: (978) 439-9842 • Website: www.noelleindustries.com • email: info@noelleindustries.com