

Novagard® 800 Series 800-620
UV Cured Gel
Specification Data



DESCRIPTION

Novagard 800 Series 800-620 is a UV cure silicone gel. This non-corrosive, single-component silicone will cure to an extremely soft rubbery gel upon exposure to ultra-violet light source.

FEATURES & BENEFITS

- Exceptionally fast UV cure
- Single component
- Minimal oxygen inhibition
- Room temperature curing
- Solvent-free formulations
- No corrosive by-products

UV APPLICATION

All laboratory experiments were conducted using a mercury vapor "H" bulb. To achieve a tack free surface requires 0.30 seconds exposure at 500 mW/cm², or 0.60 seconds at 245 mW/cm². As with any UV curing system, longer exposure times are required for lower intensity lamp conditions.

AVAILABILITY

Consult your Novagard sales representative for packaging options and volume requirements.

STORAGE

Novagard 800 Series 800-620 may be stored in the original unopened container at, or below, 80°F for up to twelve (12) months.

PRECAUTIONS

Consult and obey all applicable local, state, and federal regulations for disposal of solvent and silicone waste. For additional information consult product S.D.S.

Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides. Not recommended for surfaces that are to be painted.

PRODUCT SPECIFICATIONS

| Physical Property | Test Method | Performance Range |
|-------------------|---------------------------|---------------------|
| Appearance | | Clear Fluid |
| Specific Gravity | | 0.95 – 1.05 |
| Viscosity | Brookfield RV #6 @ 20 rpm | 15,000 – 20,000 cPs |
| Shore 00 | ASTM D2240 | 50 – 60 |

TYPICAL PROPERTIES*

| Physical Property | Test Method | Typical Value |
|--------------------------------------|-------------|--------------------------------|
| Volume Resistivity | ASTM D257 | 4.66 x 10 ¹⁴ ohm-cm |
| Dissipation Factor (100 Hz/100 kHz) | ASTM D150 | 0.0036/0.0029 |
| Dielectric Constant (100 Hz/100 kHz) | ASTM D150 | 3.37/3.34 |
| Dielectric Strength 10 mil gap | ASTM D149 | 480 v/mil |

*The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. Results are after UV cure.

ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product, however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety.