

**Novagard® 800 Series 800-270
UV Cure Potting Compound
Specification Data**



DESCRIPTION

Novagard 800 Series 800-270 is a dual-cure product custom formulated for potting small electronic parts but may also find application as an industrial coating. This non-corrosive, single-component silicone potting will cure to a solid rubber upon exposure to either an ultra-violet light source or to atmospheric moisture.

APPLICATIONS

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.

As with any single-component moisture-cured material, work life and cure times of Novagard 800 Series 800-270 are dependent on the environmental conditions such as temperature, humidity, and film thickness.

AVAILABILITY

Novagard 800 Series 800-270 is available in 5 gallon, straight-sided pails.

STORAGE

Novagard 800 Series 800-270 may be stored refrigerated in the original, unopened container in the range of 4-8°C (40 - 48°F) for up to six (6) 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.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Clear Fluid
Viscosity	Brookfield RV #5 @ 20 rpm	2,000 – 5,000 cPs
Skin Over Time	20 mils @ 50% RH /77°F	60 minutes minimum

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		0.98 – 1.05
Tensile Strength	ASTM D412	50 psi minimum
Elongation	ASTM D412	250 – 450%
Shore A	ASTM D2240	10 – 25
Solids Content		>98%

ELECTRICAL/THERMAL PROPERTIES*

Physical Property	Test Method	Typical Value
Dielectric Strength	ASTM D149	400 v/mil
Dielectric Constant (100 Hz/1 KHz)	ASTM D150	2.67 / 2.68
Dissipation Factor (100 Hz/1 KHz)	ASTM D150	0.001/0.001
Volume Resistivity	ASTM D257	4.7 x 10 ¹⁵ Ω-cm
Operating Temperature		-40°C to 200°C

*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.