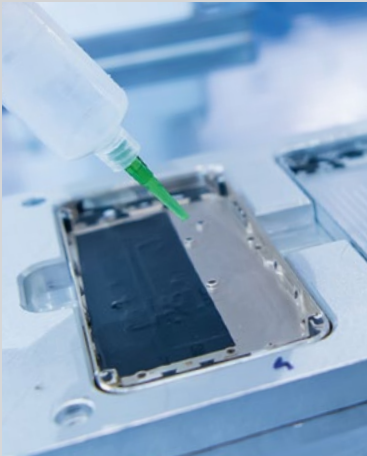


NOVAGARD

800 Series UV Cure and UV/Dual Cure Silicone Sealants

Silicone based compounds provide excellent insulation properties, vibration damping, and barrier protection against weather and severe environmental conditions. The Novagard 800 Series products represent a break-through in UV/Dual Cure silicone technology. Novagard UV cured encapsulating compounds maintain all of the enhanced performance characteristics of conventional silicone-based materials with processing speeds unmatched by other technologies. Based on our patented, ultraviolet-energy cure chemistry, the 800 Series products possess a speed and depth of cure far exceeding most other UV silicone-based cure systems. This unique chemistry allows deep sections to cure almost instantly. If desired, a moisture curable component provides for shadow curing in those areas unexposed to the ultraviolet light source.



Silicone properties with UV speed:

- Excellent thermal stability and weather resistance
- Dielectric properties expected from a silicone
- Production line speed cure rate (3 seconds)
- Depth of cure up to 25 mm (1") depending on product
- Adhesion to common substrates including plastics and metals
- Service temperature of -54°C to 204°C (-65°F to 400°F)



With cure speeds of less than three seconds, this unique chemistry allows our products to cure up to 25 mm (1") thick with minimal energy requirements. Physical properties can be varied, including the viscosity of encapsulants from a few hundred centipoises for spraying to several thousand for thick coating applications. Dual cure products offer assurance that shadow areas will fully cure.

The Novagard UV/Dual Cure Sealants are available in flowable, paste, and gels.

Applications:

- Encapsulation and Potting
- Printed Circuit Board Coatings
- Formed-In-Place Gasketing
- Electronics Protection

Disposal: Consult and obey all applicable local, state, and federal regulations. For additional information, consult product Safety Data Sheet.

Precautions: 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.

Made in the USA. For Professional Use



Proudly made in Cleveland, Ohio



800 Series UV Cure Silicone Sealants

	800-230	800-235	800-240	800-245
FLOWABLE				
PRODUCT SPECIFICATIONS*				
Description	UV Cure	UV Cure	UV Cure	UV Cure
Appearance	Hazy Fluid	Hazy, Viscous Fluid	Hazy, Viscous Fluid	Hazy, Viscous Fluid
Viscosity	20,000 - 35,000 cPs	70,000-110,000 cPs	60,000-100,000 cPs	2,500 - 6,000 cPs
TYPICAL CURED PROPERTIES*				
Specific Gravity	1.00 - 1.05	1.00 - 1.05	1.00 - 1.05	1.00 - 1.05
Tensile Strength (ASTM D412)	40 - 100 psi	130 - 180 psi	150 - 300 psi	30 - 70 psi
Elongation (ASTM D412)	250 - 450%	600%	400 - 600%	200 - 400%
Shore A (ASTM D2240)	10 - 20	15 - 20	20 - 30	5 - 15

	800-610	800-620
GEL		
PRODUCT SPECIFICATIONS*		
Description	UV Cure	UV Cure
Appearance	Clear Fluid	Clear Fluid
Specific Gravity	0.95 - 1.05	0.95 - 1.05
Viscosity	1,000 cPs maximum	15,000 - 20,000 cPs
Shore 00 (ASTM D2240)	60 - 70	50 - 60
TYPICAL PROPERTIES*		
Dielectric Strength [10 mil gap] (ASTM D149)	500 v/mil	480 v/mil
Dielectric Constant [100 Hz/1 KHz] (ASTM D150)	3.30 / 3.20	3.37 / 3.34
Dissipation Factor [100 Hz/1 KHz] (ASTM D150)	0.0039 / 0.0024	0.0036 / 0.0029
Volume Resistivity (ASTM D257)	5.41 x 10 ¹⁴ Ωcm	4.66 x 10 ¹⁴ Ωcm

	800-400
PASTE	
PRODUCT SPECIFICATIONS*	
Description	UV Cure
Appearance	Translucent Paste
Extrusion Rate @ 50 psi, 1/8" orifice	150 gm/minute minimum
TYPICAL PROPERTIES*	
Specific Gravity	1.05 - 1.20
Tensile Strength (ASTM D412)	250 - 350 psi
Elongation (ASTM D412)	1,200 - 1,500%
Shore A (ASTM D2240)	10 - 20

800 Series UV/Dual Cure Silicone Sealants

	800-255	800-260	800-270	800-275	800-505	800-515
FLOWABLE						
PRODUCT SPECIFICATIONS*						
Description	UV/Dual Cure	UV/Dual Cure	UV/Dual Cure Potting Compound	UV/Dual Cure Potting Compound	UV Cure Conformal Coating	UV Cure Conformal Coating
Appearance	Hazy Fluid	Clear Fluid	Clear Fluid	Clear Fluid	Clear Fluid	Clear Fluid
Viscosity	2,000 - 5,000 cPs	1,800 - 4,000 cPs	2,000 - 5,000 cPs	5,000 - 9,000 cPs	~500 cPs	~1,500 cPs
Skin Over Time	60 minutes minimum	60 minutes minimum	60 minutes minimum			
TYPICAL CURED PROPERTIES*						
Specific Gravity	0.98 - 1.05	0.98 - 1.05	0.98 - 1.05	0.98 - 1.05	0.98 - 1.05	0.98 - 1.05
Tensile Strength (ASTM D412)	50 psi minimum	50 psi minimum	50 psi minimum	50 - 150 psi	65 psi	61 psi
Elongation (ASTM D412)	250 - 450%	250 - 450%	250 - 450%	200 - 400%	60%	200%
Shore A (ASTM D2240)	10 - 25	10 - 25	10 - 25	10 - 20	15	10
ELECTRICAL/THERMAL PROPERTIES*						
Dielectric - Strength (ASTM D149)	400 v/mil	424 v/mil	400 v/mil		424 v/mil	424 v/mil
Dielectric Constant [100 Hz/1 KHz] (ASTM D150)	2.67 / 2.68	3.35 @ 100 Hz	2.67 / 2.68		3.35 @ 100 Hz	3.35 @ 100 Hz
Dissipation Factor [100 Hz/1 KHz] (ASTM D150)	0.001 / 0.001	0.0034 @ 100 Hz	0.001 / 0.001		0.0034 @ 100 Hz	0.0034 @ 100 Hz
Volume Resistivity (ASTM D257)	4.7 x 10 ¹³ Ωcm	4.58 x 10 ¹³ Ωcm	4.7 x 10 ¹³ Ωcm		4.58 x 10 ¹³ Ωcm	4.58 x 10 ¹³ Ωcm
Coefficient of Linear Thermal Expansion	3 x 10 ⁻⁴ /°C	3 x 10 ⁻⁴ /°C			3 x 10 ⁻⁴ /°C	6.84 x 10 ⁻⁴ /°C
Operating Temperature	-40°C to 200°C (-40°F - 392°F)	-40°C to 200°C (-40°F - 392°F)	-40°C to 200°C (-40°F - 392°F)		-40°C to 200°C (-40°F - 392°F)	-40°C to 200°C (-40°F - 392°F)
UL Rating		UL 746E Listed				

*The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information. Results are after UV cure plus 7 days at 25°C/50% RH.



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ISO 9001:2015 QMS (with Design), IATF 16949:2016 QMS (with Design)
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