



- Thermal management
- Environmental protection
- Vibration damping
- Shock absorption
- High surface wet-out
- Superior flow characteristics
- Electronics grade
- Excellent surface wetting to minimize interfacial resistance

NOVATHERM

Novagard Thermal Management Materials

Novagard silicone-based thermal management materials offer excellent heat dissipation over a wide temperature and humidity range making them particularly useful for protecting electronics in extreme conditions. Along with thermal conductivity, they provide adhesion, rapid assembly, and environmental protection. Furthermore, Novagard silicones contain no solvents, are resistant to ozone and ultraviolet degradation, and can be customized to meet the exact dispense and performance requirements for your specific application.



Performance characteristics of our silicone formulations can be adjusted based on specific application requirements. Rheology, hardness and other physical properties, adhesion, and cure profiles can all be customized as needed.

Novagard is proud to serve the following industries:

- Automotive and Electric Vehicles
- Batteries and Control Modules
- Consumer Electronics
- Power Supplies & Power Systems
- Solid State (LED) Lighting
- Telecommunications Equipment
- Sustainable Energy
- Medical Electronics

NOVAGARD®

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ISO 9001:2015 QMS (with Design) | IATF 16949:2016 QMS (with Design)
Certified Women's Business Enterprise

Made in the USA. For Professional Use.



Novagard Thermal Management Materials

Properties	Test Method	600-303	600-305	600-307	600-310	600-315
Uncured*						
Form		Flowable	Flowable	Flowable	Paste	Paste
Cure Chemistry		2-part, Addition Cure	2-part, Addition Cure	2-part, Addition Cure	2-part, Addition Cure	2-part, Addition Cure
Appearance Part A Part B		White Pink	White Pink	White Pink	White Salmon	White Sky Blue
Viscosity (cP) Part A 10s-1 Part B 10s-1 Mixed	ASTM D5099	280 200 240	4,000 4,400 4,200	6,600 5,800 6,200	27,000 42,000 34,500	65,000 64,000 64,500
Density at 25°C (g/cm ³)	ASTM D792	1.3	1.7	1.8	2.2	2.6
Mixed Ratio		1:1	1:1	1:1	1:1	1:1
Working Time (Pot Life)		>1 hour	>1 hour	>1 hour	>1 hour	>1 hour
Cured*						
Durometer Shore A	ASTM D2240	42	52	53	63	75
Appearance (Mixed)		Light Pink	Pink	Pink	Salmon	Sky Blue
Dielectric Strength (kV/mm)	ASTM D149	5.2	8.4	6.9	8.8	7.8
Dielectric Constant at 100 Hz	ASTM D150	3.5	4.1	4.1	4.9	5.9
Volume Resistivity (Ω cm)	ASTM D257-14	8.2x10 ¹⁵	6.4x10 ¹⁶	3.6x10 ¹⁵	9.9x10 ¹⁵	6.8x10 ¹⁵
Dissipation Factor at 100 Hz	ASTM D150	0.0410	0.0012	0.0030	0.0020	0.0034
Thermal Conductivity , TC (W/mK)	ASTM D5470	0.3	0.5	0.7	1.0	1.5
*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.						

Properties	Test Method	600-320	600-325	600-330	600-335
Uncured*					
Form		Paste	Paste	Paste	Paste
Cure Chemistry		2-part, Addition Cure	2-part, Addition Cure	2-part, Addition Cure	2-part, Addition Cure
Appearance Part A Part B		White Dark Blue	White Green-Yellow	White Yellow	White Dark Gray
Viscosity (cP) Part A 10s-1 Part B 10s-1 Mixed	ASTM D5099	45,000 40,000 42,000	110,000 60,000 85,000	57,000 38,000 50,000	27,000 28,000 27,500
Density at 25°C (g/cm ³)	ASTM D792	2.8	3.3	3.0	3.1
Mixed Ratio		1:1	1:1	1:1	1:1
Working Time (Pot Life)		>1 hour	>1 hour	>1 hour	>1 hour
Cured*					
Durometer Shore A	ASTM D2240	58	76	70	68
Appearance (Mixed)		Blue	Lime Green	Yellow	Gray
Dielectric Strength (kV/mm)	ASTM D149	11.0	8.0	11.0	11.0
Dielectric Constant at 100 Hz	ASTM D150	6.4	6.2	7.0	7.2
Volume Resistivity (Ω cm)	ASTM D257-14	1.4x10 ¹⁶	1.3x10 ¹⁶	1.1x10 ¹⁶	9.1x10 ¹⁵
Dissipation Factor at 100 Hz	ASTM D150	0.0052	0.0565	0.0110	0.0133
Thermal Conductivity , TC (W/mK)	ASTM D5470	2.0	2.5	3.0	3.5
*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.					