Novagard® 500 Series 500-09X
Fast Tack 500 Series
Specification Data

NOVAGARD

DESCRIPTION

Novagard 500 Series 500-09X is non-corrosive when tested in accordance with MIL A-46146A. This single-component silicone-based sealant and/or adhesive provides fast tack-free times, flame and fire resistance, and excellent electrical insulation and arc-resistance properties. It is formulated to conform to UL 94 V0.

FEATURES & BENEFITS

- Wide range of compatibility
- Single component
- Primerless adhesion
- Excellent dielectric properties
- Room temperature curing
- Solvent-free formulation

APPLICATIONS

Specially formulated to retain the physical properties even during service in extreme environmental conditions, the product is a smooth paste that is ideal for applications that require superior bond strength and flame resistance. Designed primarily for electronics, automotive, and industrial applications, this material is well suited to sealing and bonding applications to a wide variety of plastic and non-porous substrates.

INSTALLATION

As with all single-component materials, the work life and cure times of Novagard 500-09X is dependent upon environmental conditions such as temperature, humidity, and application thickness. Adhesion should be checked on small samples prior to full-scale production.

AVAILABILITY

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

STORAGE

Novagard 500 Series 500-09X may be stored in the original unopened container at, or below, 70˚F (21˚C) for up to twelve (12) months.

PRECAUTIONS

Consult and obey all applicable local, state, and federal regulations for the 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	Visual	Black Paste
Extrusion Rate	1/8" orifice; 50 psi	40 gm/minute minimum
Skin Over Time	1/8" @ 50% RH & 77°F	8 minutes
Through Cure	1/8" @ 50% RH & 77°F	7 days

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.46
Hardness (Shore A)	ASTM D2240	55
Tensile Strength (psi)	ASTM D412	650
Elongation (%)	ASTM D412	150
Dissipation Factor (100 Hz / 100 kHz)	ASTM D150	0.0035 / 0.0033
Dielectric Constant (100 Hz / 100 kHz)	ASTM D150	3.24 / 3.26
Adhesion Glass Aluminum	ASTM C794	 15 – 20 pli 15 – 20 pli
Tear Resistance	ASTM D624	30 – 35 pli
Thermal Conductivity	NG Test Method	0.67 W/m-K
Volume Resistivity	ASTM D257	8.41 x 10^{13} Ω-cm

Physical Property	Test Method	Typical Value
Flammability Class	UL 94	Black – V0

* The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary.

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.

5109 Hamilton Ave., Cleveland, OH 44114 USA | P (216) 881-8111 | F (216) 881-6977 | novagard.com | ISO 9001:2015, IATF 16949:2016