

PV5173

SOLAR PRODUCTS



DESCRIPTION

Novagard® PV5173 is a single-component, thermally-conductive silicone sealant and/or adhesive that provides fast tack-free time, fire resistance and cures with no corrosive byproducts.

FEATURES & BENEFITS

- *Wide range of compatibility*
- *Single component*
- *Primerless adhesion:*
 - aluminum, polycarbonate, glass, steel, Tedlar®*
- *Non-sag rheology*
- *Excellent thermal conductivity*
- *Room temperature curing*
- *Solvent free formulations*
- *No corrosive byproducts*

APPLICATIONS

PV5173 is ideally suited for any application that requires long-term bonding and sealing with superior thermal conductivity. Designed primarily for engineering applications in a wide variety of industries, Novagard PV5173 is also an excellent junction box sealant, or for cooling and protecting heat-generating elements such as bypass diodes in photovoltaic module construction.

INSTALLATION

As with all single component materials, work life and cure times of PV5173 is dependent upon environmental conditions such as temperature, humidity and application thickness. Adhesion should be checked on small samples prior to full scale production.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		White paste
Extrusion Rate	1/8" orifice; 90 psi	> 200 gms/min
Skin Over Time	1/8" @ 50%RH & 77F	15 minutes max.
Through Cure	1/8" @ 50%RH & 77F	24 hours maximum

PRECAUTIONS

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

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.

STORAGE

Novagard® PV5173 may be stored in the original unopened containers at, or below, 80° F for up to one year.

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.10 – 1.30
Tensile Strength	ASTM D412	200 -250 psi
Elongation	ASTM D412	150 - 250%
Tear Resistance	ASTM D 624	30-35 pli
Shore Hardness	ASTM D 2240	45 ± 5
Adhesion		
Glass - Aluminum	ASTM 1002-05	155 psi
Glass – Painted metal		130 psi
Thermal Conductivity	ASTM 1530	1.8 W/m-°K

*The values outlined reflect testing that was conducted on laboratory prepared specimens, 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.

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Form Name
10-D2-PV5173

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www.novagard.com