

PV 5100

SOLAR PRODUCTS



DESCRIPTION

Novagard® PV 5100 is a single-component, neutral-cure, 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 dielectric properties*
- *Room temperature curing*
- *Solvent free formulations*
- *No corrosive byproducts*
- *UL rated (pending)*

APPLICATIONS

PV 5100 is ideally suited for any application that requires long-term bonding and sealing, superior environmental resistance and protection against both thermal and mechanical shock. Designed primarily for engineering applications in a wide variety of industries, Novagard PV 5100 is also an excellent frame and junction box sealant in photovoltaic module construction.

INSTALLATION

As with all single component materials, work life and cure times of PV 5100 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	> 300 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® PV 5100 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		1.40 – 1.50
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	ASTM D910	12-15 pli
Aluminum		15-20 pli
Polycarbonate		10-12 pli
Flammability Class	UL 94	HB (Pending)

*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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 10-D2-PV5100

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