

# Fortasun™ PV-8101F Sealant

One-part, fast tack-free, silicone RTV for PV module assembly

## Features

- One-part
- Room temperature condensation cure
- Fast tack-free time
- Excellent adhesion to PV substrates, including anodized aluminum, PPO, glass, fluoropolymer laminates, such as Tedlar™ laminates
- Broader compatibility with EVA
- Will not slump, sag or run off surface
- Excellent dielectric properties
- UL 94 HB, HWI=2, CTI=0
- RTI 105°C (221°F)

## Benefits

- Long term weathering
- Reliable frame and junction box bonding and sealing performance
- Optimizing production cycle time specifically tested for PV sealing applications

## Composition

- One-part silicone rubber supplied as non-slumping paste

## Applications

- Typical applications include: bonding and sealing of photovoltaic module frames and electrical junction boxes.

## Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local DuPont sales office before writing specifications on this product.

CTM <sup>1</sup>	Property	Unit	Result
<b>As supplied</b>			
0176	Color		White
0364	Extrusion rate	g/minute	210
0098	Tack-free time (finger, 25°C (77°F), 50% RH)	Minutes	4.0
<b>Physical properties – cured 7 days at 25°C (77°F) and 50% relative humidity</b>			
0022A	Specific gravity at 25°C (77°F)		1.41
0099	Durometer hardness, Shore A		43
0137A	Tensile strength	MPa	1.78
0137A	Elongation at break	%	438
<b>Electrical properties – cured 7 days at 25°C (77°F) and 50% relative humidity</b>			
0114	Dielectric strength	kV/mm	19
0249	Volume resistivity	ohm-cm	3E+15

<sup>1</sup>CTM: Corporate Test Method, copies on CTMs are available on request.

## Description

Fortasun™ PV-8101F Sealant is a one-part oxime silicone sealant.

## How to use

### Substrate preparation

All substrates must be clean and dry. Degrease and wash off any contaminants that could impair adhesion.

### How to apply

Apply Fortasun™ PV-8101F Sealant directly to the surface of substrate that will be coated by dispensing equipment.

### Cure time

Fortasun™ PV-8101F Sealant is a moisture cure silicone, its cure speed will depend upon the thickness, the temperature and humidity. A cure rate of 2mm depth in 24 hours may be expected at 25°C (77°F), 50% RH.

## Handling precautions

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The safety data sheet is available from your local DuPont sales representative.

## Usable life and storage

When stored in the original, unopened packages at or below 32°C (89.6°F), Fortasun™ PV-8101F Sealant has a shelf life of 12 months from date of production.

## Packaging information

This product is available in 310 ml, 590 ml sausage and drums. For further details please refer to your DuPont contact.

## Limitations

In confined cure conditions, Fortasun™ PV-8101F Sealant may:

- Discolor brass, copper or other sensitive metals
- Stress crack polycarbonate

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## Health and environmental information

To support customers in their product safety needs, DuPont has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our Web site, [photovoltaics.dupont.com](http://photovoltaics.dupont.com) or consult your local DuPont representative.

## Limited warranty information—please read carefully

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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## Materials Matter™



# Fortasun™

Solar Silicones

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