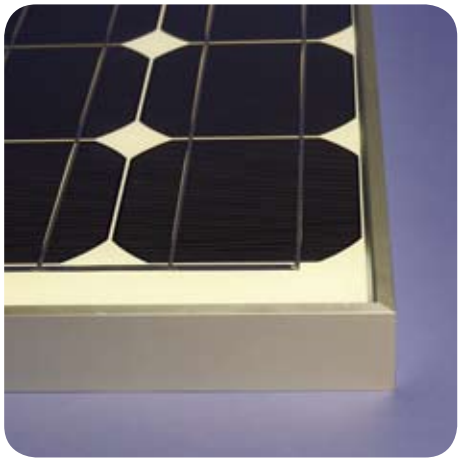
SolarBond™ A0300 Series



PV Module Frame Tape
Junction Box Tape

Bonding Solutions for the Assembly of Photovoltaic Modules

Typical Applications

- Bonding of junction box to thin film module glass back sheet.
- Perimeter sealing and bonding of photovoltaic laminate to the aluminum frame.

Features & Benefits

- Conformable acrylic core adapts to variations between junction box and glass, assuring maximum wet out and optimum bond strength.
- High tack acrylic adhesive bonds instantly so modules can be handled immediately.
- Acrylic polymer has long history of excellent durability in a wide range of conditions, insuring modules have long life in all weather conditions.

Product Description

SolarBond™ A0300 Series is a premium acrylic based bonding tape for a range of applications in the assembly of Solar modules including junction box attachment, framing and rail bar attachment. This series incorporates a high tack adhesive for immediate bond strength to enable modules to be handled quickly.

Highly Conformable Core

Due to normal dimension tolerances of glass, junction boxes and other components, the interface between the materials is never exact. The unique acrylic core of the A0300 Series is designed to conform to this mismatch assuring maximum wet out of the adhesive system - good wet out is required for strong ultimate adhesion. While liquid glues can have good wet out, these normally take hours if not days to cure. While curing, the module must remain stable which often means production bottlenecks. SolarBond's high tack pressure sensitive adhesive bonds at a touch – modules can be handled immediately after assembly.

Die Cut Parts = High Productivity

SolarBond™ Tape Series is available in die cut configurations and are ideal automated assembly operations. Utilizing pick and place automation systems, the junction boxes can be quickly assembled on modules with no curing time. This provides for a very efficient, low cost operation.

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SolarBond™ A0300 Series

Standard Configuration

Product No.	Colour	Thickness, mm (in)	Width, mm (in)	Length, m (feet)
A0300 0.8mm	Grey	0.8 (.031)	up to 900 (35)	33 (108)
A0300 1.1mm	Grey	1.1 (.043)	up to 900 (35)	33 (108)
A0300 1.5mm	Grey	1.5 (.059)	up to 450 (17)	33 (108)

Color : Grey

Release Liners: Blue poly liner

Storage: Material should be stored in its original package, in a clean, dry, well ventilated area. With these conditions, the shelf life will be a minimum of 12 months.

Application Guide:

To promote an adequate bond, both of the two surfaces must be clean and dry, cleaning with a mixture of 50/50 water and IPA has been found to be adequate for most applications.

Temperatures should be above 15°C (60°F) for proper bonding, Apply firm hand pressure (104 kPa, 15psi) for 10-15 seconds to start bond formation. Typically the bond will form 85-90% in the first hour and then increasing until the maximum bond is attained (typically within 72 hours).

Glass substrates may require silane adhesion promoters to insure maximum adhesion performance.

Technical Data

Property	Description	Unit	Typical Value
90° Peel Adhesion	25mm wide sample Tested @ 50mm/min rate Paint Steel	N/cm (lbs/in)	 35.0 (20) 42.0 (24)
Dynamic Shear Adhesion	25mm x 25mm overlap sample Tested @ 12.5mm/min rate Aluminum/Paint	kPa (psi)	413 (60)
Static Shear Adhesion	25mm x 25mm overlap sample 1 kg load @ 70°c	-	Pass

Saint-Gobain in the Solar Market

As one of the world's largest and most sustainable corporations, Saint-Gobain is speeding up its growth in the field of renewable energies. Today Saint-Gobain Performance Plastics provides the most comprehensive range of polymeric materials and engineered solutions for your module manufacturing needs. We continue to develop new products with outstanding performance and improved production efficiency to help you achieve grid parity. As your strategic partner, Saint-Gobain will work closely with you to deliver innovative products for solar modules that are cost effective, efficient and long lasting.

Saint-Gobain Performance Plastics

Europe
Avenue du Parc 18
4650 Chaineux (Belgium)
32-87-32.20.11
Fax 32-87-32.20.51

China
1468 Kun Yang Road
Minhang Eco. & Tech. Dev. Zone
Shanghai, 200245
86-21-5472-1568
Fax 86-21-5472-5993

India - Grindwell Norton Ltd
Devanahalli Road
Off Old Madras Road
Bangalore 560 049
91-80-2847 2900/3097 8888
Fax 91-80-2847 2905/2847 2616

Japan
6th Floor, Fuchu South Building
1-40 Miyamachi
Fuchu-City, Tokyo 183-0023
81-42-352-2104
Fax 81-42-358-2887

America
One Sealants Park
Granville, NY 12832
1-800-724-0883
(518)642-2200
Fax (518)642-2793

