

SolarBond™ V7700UL



PV Module Frame Tape

Bonding Solutions for the Assembly of Photovoltaic Modules

Typical Applications

- Perimeter sealing and bonding of photovoltaic laminate to the aluminum frame

Features & Benefits

- Conformable polyolefin foam core with good internal strength, UV resistance and excellent weatherability
- High performance adhesive system designed to facilitate module assembly
- Foam core insures separation of frame from delicate module glass and backsheet laminate components

Product Description

SolarBond™ V7700UL bonding tape is engineered with polyolefin elastomeric foam substrate and high performing acrylic adhesives. The adhesive is protected by an easy release plastic liner and is available in slit rolls or long length spools for automated assembly operations.

Designed for Framing of PV Modules

SolarBond™ V7700UL Series is designed specifically for the framing of PV modules. The acrylic adhesive is formulated for quick initial adhesion to common module substrates (glass/backsheet/aluminum) and quickly build to a high adhesion level. No waiting for curing - modules can be handled immediately.

Confirms to UL746C Standard

SolarBond™ V7700UL is designed to comply with UL746C - "Standard for Polymeric Materials - Use in Electrical Equipment Evaluations". This standard is designed to evaluate tape adhesion performance to a range of substrates after elevated temperature exposures. It is used to predict long term performance of a tape composition in exterior environments.

Testing to this standard is in progress with approved listing expected by Q1-2011.

SolarBond™ V7700UL Series

Standard Configuration

Product No.	Colour	Thickness mm (in)	Width mm (in)	Length m (feet)
V7700UL B	Black	0.8 (.031)	up to 1000 (39)	50 (164)
V7700UL W	White	0.8 (.031)	up to 1000 (39)	50 (164)
V7700UL B	Black	1.0 (.039)	up to 1000 (39)	50 (164)
V7700UL W	White	1.0 (.039)	up to 1000 (39)	50 (164)
V7700UL B	Black	1.5 (.059)	up to 1000 (39)	50 (164)
V7700UL W	White	1.5 (.059)	up to 1000 (39)	50 (164)

Release Liners: Standard liner is blue poly with easy release coating. Also available with white release coated paper.

Configurations: Available in full log width or custom width slit rolls. Long continuous length spools or diecut pieces are also available. Contact your Saint-Gobain representative for further information and quotation.

Storage: Material should be stored at room temperature, in its original packaging in a clean, dry, well ventilated area. Under these conditions the shelf life will be a minimum of 12 months from date of sale.

Application Guide: For maximum adhesive performance, prepare the surface by removing dust, wax, soap, and oily films with a cleaning solution. A typical cleaning solvent is a 50/50 mixture of isopropyl alcohol and water.

The greater the adhesive-to-surface contact (known as wet-out), the better the adhesive bond strength. Apply the tape with the liner on and firmly rub down insuring firm contact. Remove the liner just prior to bonding the other component. Once the adhesive makes contact apply firm pressure for several seconds to insure good wet out. If necessary to relocate, discard adhesive and use new.

Technical Data

Property	Description	Unit	Typical Value
Static shear failure test	25mmx25mm overlap sample, 1 kg load, t° ramp up at 0.5°C min. Max. t° before failure	°C (°F)	Aluminum/Glass
			78 (172)
Dynamic shear test	25mmx25mm overlap sample, tested @ 12.5mm/min rate	kPa (psi)	Aluminum/Backsheet
			76 (169)
			Glass/Aluminum
Pluck resistance	Backsheet samples 25mm x 75mm were prepared with tape around the edge. Sample was inserted in aluminum frame, then removed at a rate of 12.mm/min	N/cm (lbs/in)	Glass/Backsheet
			372 (54)
			59 (34)

Typical values are not guaranteed and will differ from lot to lot. For specification writing contact our Technical Service Department.

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.

SolarBond™ is a trademark

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
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