Smart Membranes
and Precision Components

for Solar / P.V. Lamination
with first class performance
Polymer Engineered Solar P.V. Products

J-Flex is a leading UK elastomer solutions provider. Solutions include high performance elastomer sheetings for gasket conversion and lamination applications plus manufactured elastomer components such as; mouldings, extrusions, bellows, seals, sleeves and expansion joints.

VAC-SIL® Quality Membranes
have been specifically designed to be used as vacuum membranes for Solar/P.V. module lamination plus forming or thermo-pressing vinyl foil veneers on woodwork and composites in aerospace, F1 cars, marine and other general products.

Listening to our valued customers and their experiences, VAC-SIL® Quality Membranes have been polymer engineered to give users excellent thermal and mechanical properties, with good chemical resistance that leads to optimum service life.

Precision Components
J-Flex can also supply a range of solar panel production components, such as: Squeegee Edge Profiles, Beltings, Vacuum Seals and Release Sheets.

VAC-SIL® Quality Membranes bring many positive advantages including:
- Laboratory controlled membrane production
- Material totally post-cured = maximum mechanical properties
- Membranes up to 3850mm wide
- Membranes precision cut using CAD and digital cutting equipment
- Holes, slots & curves - no problem!
- Huge stocks of base materials
- Ex-stock or delivery by agreement
- Unique VAC-SIL® 9-Point Quality Plan
- Premium product packaging
- Excellent cycle life - up to 10,000 cycles guaranteed*
- Temperature resistant
- Great strength & tear resilience
- Excellent release properties

Squeegee Edge Profiles for screen printing in Solar P.V. cell production
Produced from the highest grade of Polyurethane (Vulkollan®).
- Standard
- High Grade (NdI)
- 2 Part Profiled Blade

PTFE / Glassfabric Products
- Stringer Belts - perforated
- Release Belts
- Transport Belts
- Vision Belts
- Platen Sheets

All items fabricated expertly and promptly

For more information, download our White Paper, “Reducing the Total Cost of Ownership of a Solar / P.V Laminator” at www.j-flex.co.uk
from J-Flex

Relative Properties of Vac-Sil® Grades

**Advantages**
- Unique Light Blue colour
- Medium Life Cycle Performance
- Most economic grade
- Widely used in 3mm - but also 4.5mm
- High Temperature +200°C

**Advantages**
- Unique Green/Black composite 3.8mm thick
- High Life Cycle Performance
- Black gas side - Peroxide/E.V.A. Resistant Barrier
- 1 layer fabric reinforcement - tough mechanical strength
- Most cost-effective grade
- Maximum UPTIME
- Temperature +150°C

**Advantages**
- Unique Red/Black composite 3.1mm thick
- Good Life Cycle Performance
- Black gas side - Peroxide/E.V.A. Resistant Barrier
- Guaranteed for long life
- Temperature +150°C

**Advantages**
- Unique Orange/Black composite - 2 variants
- Highest Life Cycle Performance and Temperature Resistance
- Non-reinforced - 3.1mm thick
- Fabric Reinforced - 3.8mm thick
- Black gas side - Peroxide/E.V.A. Resistant Barrier
- Guaranteed for long life
- High Temperature +170-175°C

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Membrane Cycle life can be variable as there are many factors outside of our control that make it very difficult to give a cast iron guarantee. However, we have been in the Solar business for a long time now - over 10 years now - so taking account of these variables we give a warranty guide as detailed in the descriptions for each grade. See our White Paper: “A Guide for Optimising Membrane Performance”.

or at www.j-flex.co.uk
membranes by J-Flex provide superior performance, not only in the Solar Panel industry, but also in areas such as Furniture Lamination, Aerospace, Formula 1 and Marine applications.

Established in 1984, J-Flex is a privately owned company involved in the manufacturing & distribution of high end sheet products. Over this time our manufacturing facility has gained an enviable reputation for high quality elastomeric sheets and PTFE fabrics & belts.

Our Production Facilities are laboratory controlled and we are ISO9001 approved. J-Flex is also a member of the official Chemours Viton™ licensee programme.

J-Flex currently exports to over 50 countries worldwide.

Each VAC-SIL® Membrane from J-Flex passes a 9 point Quality Plan ensuring the best quality possible time after time. VAC-SIL® Quality Membranes conform to current Reach / SVHC requirements.

An active R & D programme keeps J-Flex at the forefront with top quality & innovative product offerings.

Sounds like perfection:
Sounds like J-Flex