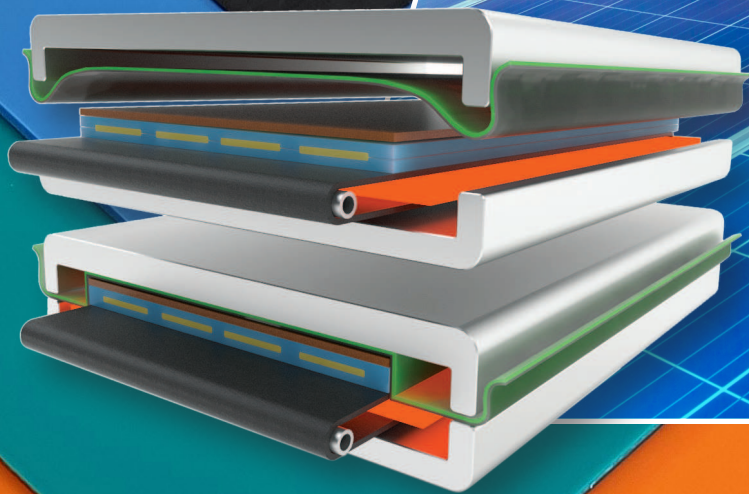


VAC-SIL[®] Membranes

for Lamination/Vacuum-Forming

for Solar/P.V.
module lamination



- Increased Yield
- Increased Uptime
- Lowest Total Cost of Ownership (TCO)





Why VAC-SIL® Quality Membranes?

Specifically designed to be used as vacuum membranes for solar/P.V. module lamination and further used for the forming or thermo-pressing of vinyl foil veneers and composites across a range of industries.

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 and an excellent price to performance ratio.



Benefits

Increased Yield • Increased Uptime • Lowest Total Cost of Ownership (TCO)

VAC-SIL[®] **SUPREME**

- Colour: Black
- Excellent Life Cycle Performance
- 1mm thickness
- 35° Shore
- High Tensile Strength 8.5 MPa
- High Temperature +200°C

VAC-SIL[®] **LAMIN8**

- Unique Green/Black composite
- Very Good Life Cycle Performance
- Black gas side - Peroxide / E.V.A. Resistant Barrier
- 1 layer fabric reinforcement - tough mechanical strength
- 3.8mm thick
- Most cost-effective grade
- 55° Shore
- Maximum UPTIME
- Temperature +150°C

VAC-SIL[®] **PRO**

- Colour: Blue
- Good Life Cycle Performance
- 1.5 and 3mm thicknesses
- Most economic grade
- 55° Shore
- High Tensile Strength 7.0MPa
- High Temperature +200°C

VAC-SIL[®] **ENDURANCE+**

- Unique Orange/Black composite
- Highest Life Cycle Performance
- Black gas side - Peroxide / E.V.A. Resistant Barrier
- 1 layer fabric reinforcement - tough mechanical strength
- 4mm thick
- Guaranteed for long life
- 55° Shore
- High Temperature +200°C

Grades & Properties

Most
Vac-Sil[®]
Membranes
Ex-Stock

Choosing VAC-SIL[®] Membranes brings you many positive advantages, including:

- Laboratory controlled membrane production
- Material totally post-cured = maximum mechanical properties
- Membranes up to 3850mm wide
- Membranes produced using CAD and precision cut on our large 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
- Temperature resistant
- Great strength & tear resilience
- Excellent release properties

Industry Suitability Guide

	Solar	Furniture	Automotive	Marine	Aerospace
VAC-SIL[®] SUPREME	✗	✓	✓	✓	✓
VAC-SIL[®] PRO	✓	✓	✓	✓	✓
VAC-SIL[®] Lamin8	✓	✗	✗	✗	✗
VAC-SIL[®] ENDURANCE+	✓	✗	✗	✗	✗

Please note:

All stated specifications relate to cured material. We do not supply uncured material.

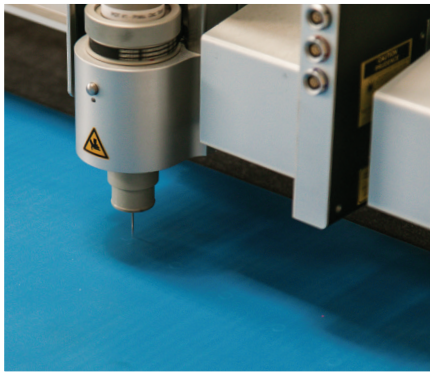
Testing for physical properties carried out on laboratory test pieces in accordance with appropriate industry specification.

Membrane Cycle Life: Can be variable as there are many factors outside of our control. The improved performance of the material offers the potential for significant and proven improvement, depending on the operating conditions.

IMPORTANT INSTALLATION NOTICE for Solar Panel Production:

Load VAC-SIL[®] PRO Blue Membrane with the fabric impression (matt textured) face down against the module surface.

Load VAC-SIL[®] Lamin8 & Endurance+ Membranes with the Black EVA & Acid resistant face down against the module surface.



Our flatbed digital cutting equipment precision cuts your membranes up to 3200mm wide - special shapes and any required holes/slots are not a problem.

ROI and TCO (Total cost of ownership)

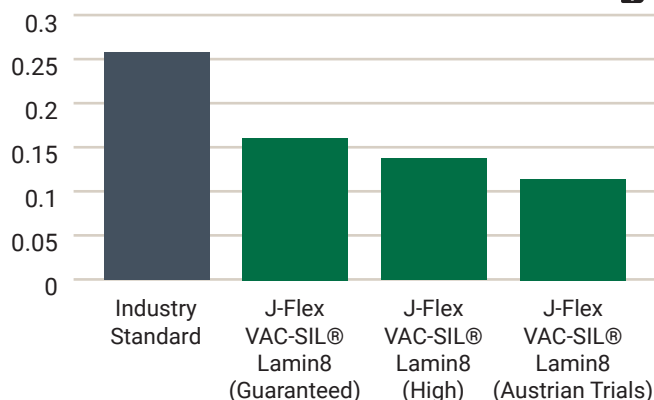
The example opposite is based on a hypothetical price per membrane of say 1560. It demonstrates the price per product cycle when divided by the number of cycles achieved.



Faster ROI and Lower TCO
\$\$\$££€€

Price per use (product cycle)

VAC-SIL[®]
Lamin8



Specifications

VAC-SIL[®] is a registered trade mark of J-Flex

	VAC-SIL[®] SUPREME	VAC-SIL[®] PRO	VAC-SIL[®] LAMIN8 Fabric Reinforced	VAC-SIL[®] ENDURANCE+ Fabric Reinforced
Colour	Black	Blue	Green/Black	Orange/Black
Thickness	1mm (±0.3mm)	1.5mm or 3mm (±0.3mm)	3.8mm (±0.3mm)	4.0mm (±0.3mm)
Hardness	35° shore A (±5°)	55° shore A (±5°)	55° shore A (±5°)	55° shore A (±5°)
Average Tensile Strength	8.5 MPa	7.0 MPa	4.2 MPa	4.0 MPa
Elongation @Break	750%	500%	350%	300%
Continuous Operating Temperature	200°C	200°C	150°C	200°C
Characteristics	100% VMQ Silicone	100% VMQ Silicone	100% VMQ Silicone EVA & Acid Resistant 1 layer fabric composite	100% VMQ Silicone EVA & Acid Resistant 1 layer fabric composite
Typical Areas of Use	Vacuum Forming of composites and surface finishes within the Automotive, Furniture, Marine & Aerospace markets	Vacuum Forming of composites and surface finishes within the Automotive, Furniture, Marine & Aerospace markets as well as in Solar PV Panel Production	Solar PV Panel Production	Solar PV Panel Production

Other Related Products

PTFE / Glassfabric Products

- Stringer Belts - perforated • Release Belts • Transport Belts • Vision Belts • Platen Sheets

Laminator Vacuum Seals

- Custom/Made-to-order • Fabricated Seals



Do you have unique requirements?

We specialise in unique and unusual requests
Get in touch and put our experts to the test!



J-FLEX Rubber Products

Units 1 & 2, London Road Business Park, Retford,
Nottinghamshire, DN22 6HG, United Kingdom

tel: +44 (0) 1777 712400 email: sales@j-flex.com
www: www.j-flex.com

INNOVATIVE RUBBER SOLUTIONS

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

