

# MATERIAL DATA SHEET

## ‘VAC-SIL LAMI-FLEX®’

PHYSICAL PROPERTIES			
PROPERTY	EVA Resistant WORKING SURFACE	BUFFERING SURFACE	TEST METHOD
COLOUR:	Black	Light Blue	
HARDNESS:	78° Shore A (+/-5°)	55° Shore A (+/-5°)	ASTM D2240 DIN 53505
TENSILE STRENGTH:	16 MPa	9 MPa	BSISO 37 DIN 53505 die S1 ASTM D412 Die C
ELONGATION @ BREAK:	200%	700%	BSISO 37 DIN 53504 die S1 ASTM D412 Die C
SPECIFIC GRAVITY:	1.9 g/cm <sup>3</sup> (+/-0.5)	1.25 g/cm <sup>3</sup> (+/-0.5)	ISO 2781 BS 903 A5
TEAR STRENGTH:	35 N/mm		BS ISO 34-1 method C ASTM D 624 B
COMPRESSION SET:	24%		BS 903 PT A6 TYPE B DIN 53517 type II ASTM D395 method B type 2
RESILIENCE:	38%		ASTM D1054 / D2632
TEMPERATURE RANGE:	-20 to +230°C		
LINEAR SHRINKAGE:	2.8%		
POST CURED:	5 Hours @ 175°C		
REINFORCING LAYER:	1 Ply Premium Grade Polyester Fabric		

**Limited Warranty:** For a period of 6 months from date of first sale, J-Flex warrants this product(s) to be free from defects in manufacturing. Our obligation will be to provide replacement product for any portion proving defective.

**Disclaimer:** The information contained in this document describes the features of the J-flex product(s) as tested in a laboratory environment at a temperature of 23°C at 50% relative humidity (i.e. standard test procedures). It does not necessarily reflect the conditions of industrial use and it does not guarantee the product to be suitable for certain applications or life cycle length.

Issue 1

VAC-SIL LAMI-FLEX® is a Registered Trademark of J-Flex Rubber Products

February 2012



**J-FLEX**

High Performance Elastomer Sheetings & Manufactured Components

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## VAC-SIL LAMI-FLEX®

VAC-SIL Lami-Flex® is an exclusive laminate made to order and produced from a unique pressed composition giving extended life in solar panel production.

VAC-SIL Lami-Flex® gives users many benefits including :-

- high temperature: +220°C
- anti-ageing + acid & alkali resistance
- extended life - more than 5,000 cycles
- special fluorine covering layer bonded onto silicone backing
- Inseparable layers
- special layer resistance to corrosive eva outgassing(\*)

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**Note:** Whilst we quote a guide of 5,000 cycles, due to the many elements beyond our control in installation & operating environment, we cannot guarantee the exact life expectancy

(\*) **Outgassing:** refers to unwanted chemicals that are usually a bi-product of the process and temperature. These acidic fumes are emitted from adhesive or other components and can lead to corrosion of the Diaphragm / Membrane. This corrosion manifests itself in surface degradation (cracks) + excessive stretching & sagging.

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