



The 5th Generation Silicone Membrane For Solar Laminators

Deer Hunter – Asia's leading manufacturer for speciality silicone sheets for solar PV panels lamination in the renewable energy market.

Although also called diaphragms, sheets, or membranes, the solar panel industry tends to use the term membrane.

The 5th Gen Silicone Membrane is an extraordinary type of silicone rubber products, specially developed membrane consisting of a silicone backing material and a unique covering layer. This covering layer is extremely resistant to outgassing and related decomposing processes of EVA films. This makes our membrane particularly durable and increases your machine running times.

Product descriptions and advantages

- Good reusability&durability when exposed to high pressures&elevated temperatures: +250°C
- Black covering layer is resistant to decomposing eva outgassing* during lamination process
- 1 piece seamless sheet width up to 3800mm wide (no weak joints or marks on lay-up)
- Special fluorine covering layer (black) on silicone backing (grey)
- Bond of the two layers cannot be separated mechanically
- Good cycle life - more than 10,000 cycles

Technical Data

Item no.	The 5th Generation	
Compound	Silicone/FKM	
Surface	Smooth/Textured	
Color	Gray/Black	
Reinforcing layer	1 Ply Premium Grade Aramid Fabric Insert	
Thickness	4±0.02mm	
Hardness	Buffering layer (Gray Silicone)	EVA resistant working layer (Black FKM)
	60±2 Shore A	70±2 Shore A
Density	1.25±0.05g/cm ³	1.95±0.05g/cm ³
Tensile strength	8.5MPa	14MPa
Tear strength	30N/mm	45N/mm
Elongation	600%	180%
Compression set	4%	4%
Resilience	25%	8%
Max. temperature	250°C	