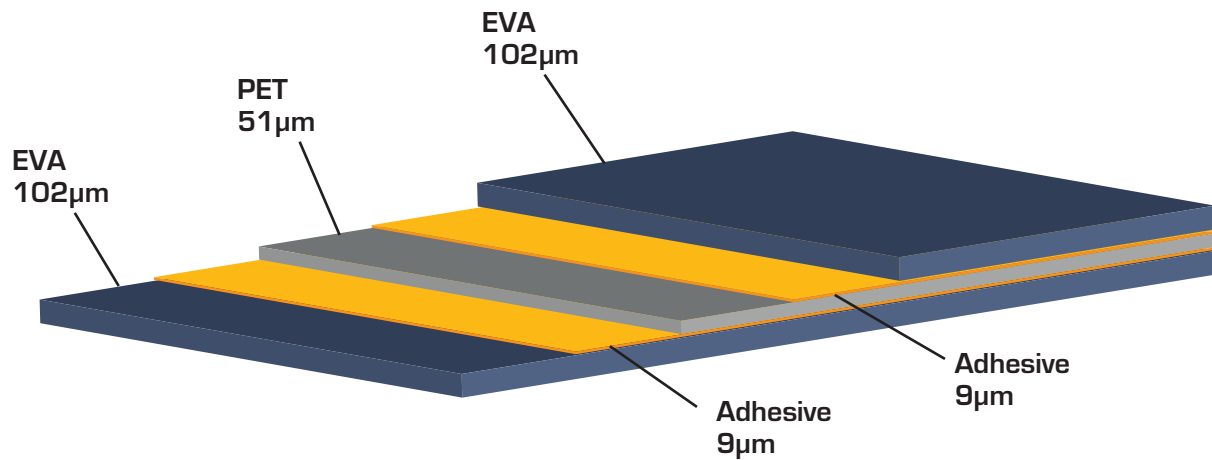


## FLEXcon multiGUARD® EPE W10



FLEXcon's multiGUARD® brand, a range of backsheet and insulative patch materials for photovoltaic modules, stands for multiple guarding properties – engineered to protect against moisture and humidity and provide superior partial discharge and high voltage insulation for proper functioning of the module.

FLEXcon multiGUARD® EPE W10 is a multi-layered white\* laminate – EVA / PET / EVA – that has excellent laminate bond strength and is designed to maintain a superior bond to encapsulants. It is a highly durable, 10.0 mil white insulative patch material. It serves two functional purposes – as a protective layer to cover the bus bars on the front side and as a patch between the cells and the bus bars feeding into the junction box on the backside. EPE W10 provides optimum electrical insulation, protection against weather and is specially treated for optimum adhesion to encapsulants.

\*Custom EVA colors available upon request.

Physical Properties	Value	Test Method
Thickness (Total Laminate)	272µm ± 10%	ASTM D1593
Specific Gravity	1.05	ASTM D1505
Bond Strength (Internal)	film destruct	ASTM D903; D1876
Bond Strength to Encapsulant <sup>1</sup>	> 40 N/cm	ASTM D903
Damp Heat Exposure <sup>2</sup>	> 1000hrs	IEC 61215
Tensile Strength	MD 51 N/mm <sup>2</sup> TD 52 N/mm <sup>2</sup>	ASTM D882
Tensile Elongation	MD 255% TD 171%	ASTM D882
Tensile Modulus	MD 437 N/mm <sup>2</sup> TD 520 N/mm <sup>2</sup>	ASTM D882
Shrinkage <sup>3</sup>	MD < 1.5% TD < 1.0%	ASTM D1204

We strongly recommend fully testing this product in the end use application to confirm product performance.

<sup>1</sup> Results may vary based on encapsulant

<sup>2</sup> 85°C/85% RH

<sup>3</sup> 150°C/30min

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FLEXcon  
1 FLEXcon Industrial Park  
Spencer, MA  
01562-2642, USA  
Phone 508 885 8200  
Fax 508 885 8400

FLEXcon Europe Ltd.  
Flevolaan 3, 1382 JX  
Weesp, The Netherlands  
Phone +31(0) 294 491800  
Fax +31(0) 294 430887

FLEXcon Europe Ltd.  
Whitworth Rd  
Southfield Industrial Estate  
Glenrothes, Fife KY6 2TF,  
Scotland - UK  
Phone +44(0) 1592 663200  
Fax +44(0) 1592 663201

