

EXIMIUS POE (POLYOLEFIN ELASTOMER)



Crafted for cutting-edge photovoltaic applications, Eximius POE Films offer outstanding moisture resistance, high electrical insulation, and exceptional compatibility with modernized bifacial solar module technologies. Tailored for the most demanding environments, Eximius POE films ensure long-term module performance & reliability. With Eximius POE, you choose next-level protection for tomorrow's solar energy needs.



PROPERTIES



Superior Moisture Barrier



Inherent PID Resistance



Superior UV Protection



Minimal Thermal Shrinkage



Acid-Free



Superior Electrical Insulation



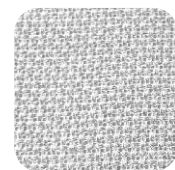
High Transmittance

EMBOSSING

Orange Peel | Grid



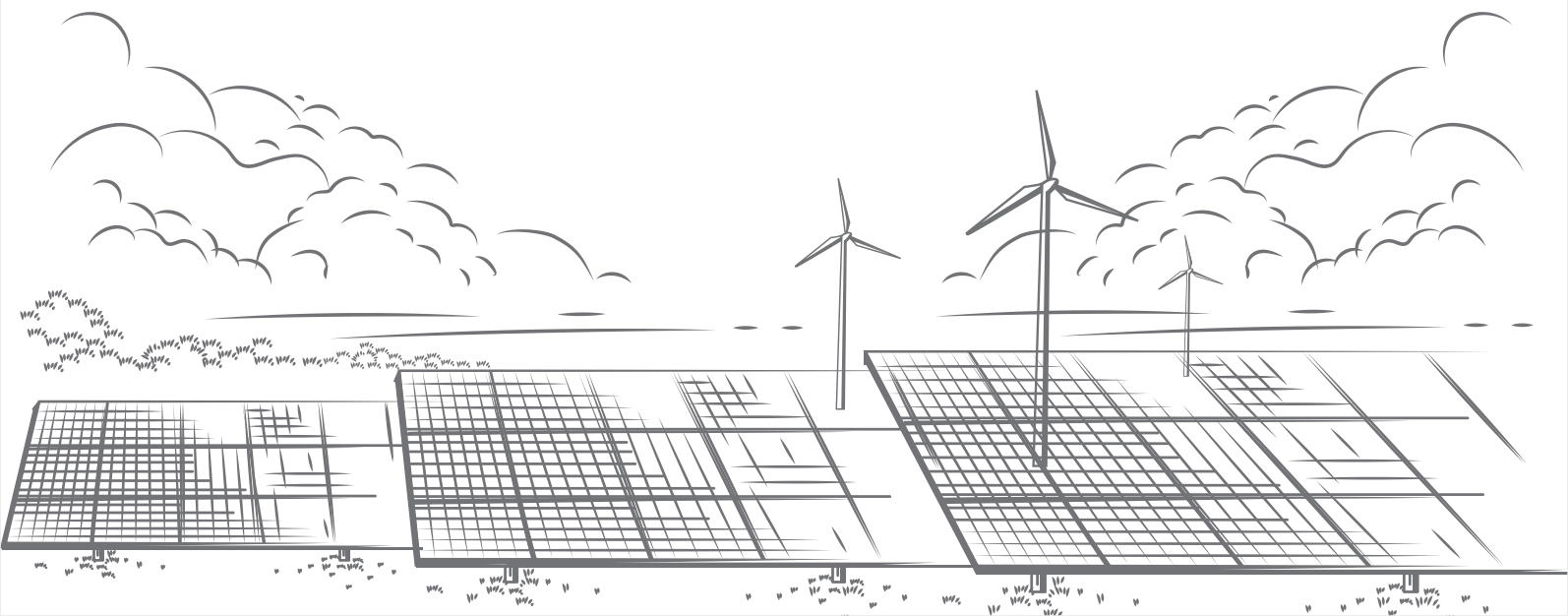
Orange Peel



Grid

VARIANTS

P-Type | N-Type | Equilibrium Cure



SPECIFICATIONS OF EXIMIUS POE

Parameters	Test Standard	UoM	Values	
Thickness	ASTM D 6988	µm	> 400	
Width	Scale	mm	Up to 1310	
Thermal Shrinkage (MD / TD)	ASTM D 1204	%	≤ 3 / ≤1.5	
Elongation	ASTM D 882	%	≥ 700	
Tensile Strength		Mpa	≥ 5	
Peel Strength with Glass	ASTM D 903	N/cm	≥ 60	
Peel Strength with Backsheet		N/cm	≥ 40	
Optical Transmittance (1100 nm-380 nm)	ASTM E 424	%	≥ 90	
Optical Transmittance (200 nm-380 nm)		UV-Trans Variant	%	≥ 80
		UV-Cut Variant	%	≤ 30
UV Cut-Off		nm	360 ± 5	
Gel Content	Soxhlet/Oven Method	%	≥ 60	
Hardness (Shore A / D)	ASTM D 2240	-	66/13	
Density	ASTM D1505	g/cm ³	0.873	
Volume Resistivity	ASTM D 257	Ω-cm	≥ 1×10 ¹⁵	
WVTR	ASTM F 1249	g/m ² -day	< 4	
Refractive Index	ASTM D 542	-	1.47	
Water Absorption	ASTM D 570	%	0.05	
Dielectric Strength	ASTM D 149	kV/mm	46.7	
Comparative Tracking Index (CTI)	IEC 60112:2020	Volt	600	

SUGGESTED LAMINATION PARAMETERS

Module Type	Parameter	1 st Chamber	2 nd Chamber
G2BS	Temperature (°C)	125-135	135-142
	Time (s)	~390	~480
G2G	Temperature (°C)	125-135	138-145
	Time (s)	~490	~660

Note: The gram weight and width may be customized

Standard packing size: 120 m² and 350 m² rolls

Storage conditions: Best recommended at temperature < 30 °C & RH < 60%

Best before: 6 months from the date of mfg.

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Manufacturer of Solar Encapsulant Films

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**FUTURE-PROOF
YOUR MODULES
TODAY!**

THANK YOU