

3M[™] Encapsulant Film PO8510W

Polyolefin Encapsulant for Photovoltaic Modules

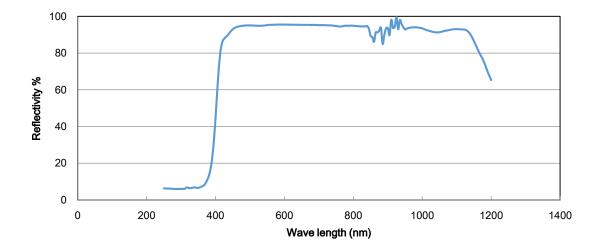
Product Introduction

3M[™] Encapsulant Film PO8510W offers protection against UV aging and weathering – while enabling maximum light reflectivity to increase power efficiency of PV module. Suitable for both Glass/Backsheet and Glass/Glass modules.

Features

 Conformable and flexible for easy lamination 1100

- Durable bonding strength with both glass and backsheet
- Excellent UV and damp-heat stability
- Low shrinkage rate
- High light reflection
- No acetic acid/No corrosion
- 1/10th MVTR vs. EVA
- Good compatibility with CIGS Modules
- >130°C Creep



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	Units	Typical Value	Test Method
	g/m²	360-460	
MD	MPa	6.5	ASTM D882
TD	MPa	5.0	
MD	%	50	
TD	%	55	
	N/cm	70	ASTM D903
	Ω·cm	2.0×10 ¹⁴	ASTM D257
	%	90	ASTM 97
MD	%	-2.2	ASTM 1204
TD	%	0.8	
∆b*	-	1.0	ASTM G154
	TD MD TD MD TD	g/m² MD TD MPa MD MO MD MD MD MD MO MO MO MO MO MO MO MO MO	g/m² 360-460 MD MPa 6.5 TD MPa 5.0 MD % 50 TD % 55 TD % 70 ID Ω·cm 2.0×10 ¹⁴ % 90 90 MD % -2.2 TD % 0.8

Typical Physical Properties (data not for specification purposes)

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Data not for specification purpose

Suggested Lamination Conditions

Condition	Suggested Value	
Lamination Temperature	148-160∘C	
Evacuation Time	5-12 min	
Press Time	15-18 min	

Storage

Shelf life is 6 months under proper storage conditions. The product shall be stored indoor with the temperature controlled between $0^{\circ}C-30^{\circ}C$ and relative humidity below 60%, avoiding direct sunlight. The product shall not be placed near any heating equipment or exposed in a dusty place. Check the package box of stored product before unfolding. The product shall be used up as soon as possible after the package is unfolded. The unused should be properly sealed with original package or similar package.

For more information on our solar manufacturing product line, contact 3M Renewable Energy at 800-755-2654 or visit us at www.3M.com/solar.

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