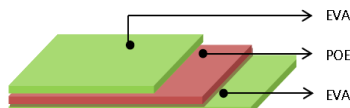


**Coextrusion POE-P507 : POE film for PERC ,N-type bifacial GG modules anti-PID encapsulation.
共挤型POE胶膜--P507 : PERC、N型双面双玻组件抗PID及高成品率POE封装解决方案**

产品介绍

海优威共挤型POE封装胶膜--P507是由POE和EVA树脂通过共挤工艺而生产出来的交联型光伏组件用封装胶膜。其主要适用于PERC双面双玻、N型双面双玻、以及其他耐候性要求高的单玻组件封装使用。共挤型POE封装胶膜的产品结构如下：



产品特点

海优威共挤型POE封装胶膜-P507既具备POE材料的高阻水和高抗PID性能，同时也具备EVA材料的双玻组件高成品率的层压工艺特性。其具体优点如下：

- 1.共挤型POE胶膜-P507可完全满足PERC双面双玻、N型双面双玻组件的正反两面抗PID性能要求。
- 2.共挤型POE胶膜产品性价比高，用于双玻组件层压工艺窗口宽、气泡少、层压良率高；
- 3.共挤型POE胶膜层压交联速度快于常规POE、可明显缩短层压时间；可考虑免去层压工装，利于实现层压自动化。
- 4.共挤型POE产品易储存、易使用，裁切后使用时间及保存方法与EVA类似。

Introduction

HIUV coextrusion POE film--P507 is a cross linking type PV encapsulant film which use EVA and POE resins together by coextrusion process. P507 is designing for PERC, N-type bifacial GG modules with strong anti-PID ability and long term durability. The structure of HIUV coextrusion POE-P507 film is as left picture.

Characteristics

HIUV coextrusion POE film--P507 has the advantages of POE's moisture resistance and super anti PID ability, and together with the EVA's characteristics of high yield rate for GG module's lamination. The detail advantages are as following :



- 1.Coextrusion POE film-P507 can satisfied PERC, N-type bifacial GG module's anti PID ability requirement both front and rear side.
- 2.P507 is a cost-effective product with wide process window and high yield rate for GG module's lamination.
- 3.Coextrusion POE-P507 can save lamination time than ordinary POE by it's fast cross linking characteristics, and it's also allows to remove craft equipment (lamination frame) to realize automatic manufacture .
- 4.Coextrusion POE is easy to store and use just like EVA film.

产品系列 Product series

型号 model	类型 type	压花类型 embossed type	性能及用途 property And usage
P507	透明 Transparent	 小金字塔压花 pyramidal embossed	用于长期耐候型组件，P型PERC、N型单晶双面双玻组件抗PID能力强 Long term durability encapsulation for P-type PERC , N- type bifacial PV modules with super anti-PID abilities.

共挤型POE--P507适用于P型PERC双面双玻、N型双面双玻组件，抗PID及抗衰减能力强。

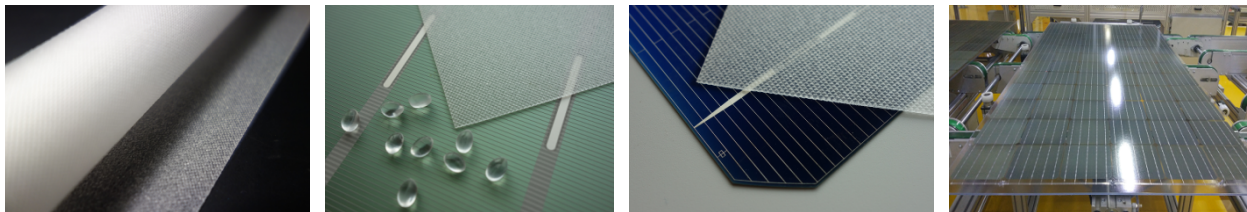
Coextrusion POE film--P507 provide super anti-PID ability for P-type PERC , N-type bifacial GG modules.

组件类型 PV module style	客户P型PERC单晶双面双玻，N型双面双玻组件使用P507封装后测试抗PID性能 Customer P-type PERC mono bifacial module , and N type bifacial module test anti-PID ability (PID test :85℃,RH85%,-1500V,192h, EL)		
P type PERC Mono GG bifacial P型PERC单晶 双面双玻(背面EL)	Before test (Rear side EL)		After 192h PID Power lost : 1.1% (Rear side EL)
N-type GG bifacial N型双面双玻 (正面EL)	Before test (Front side EL)		After 192h Power lost 2.3% (Front side EL)

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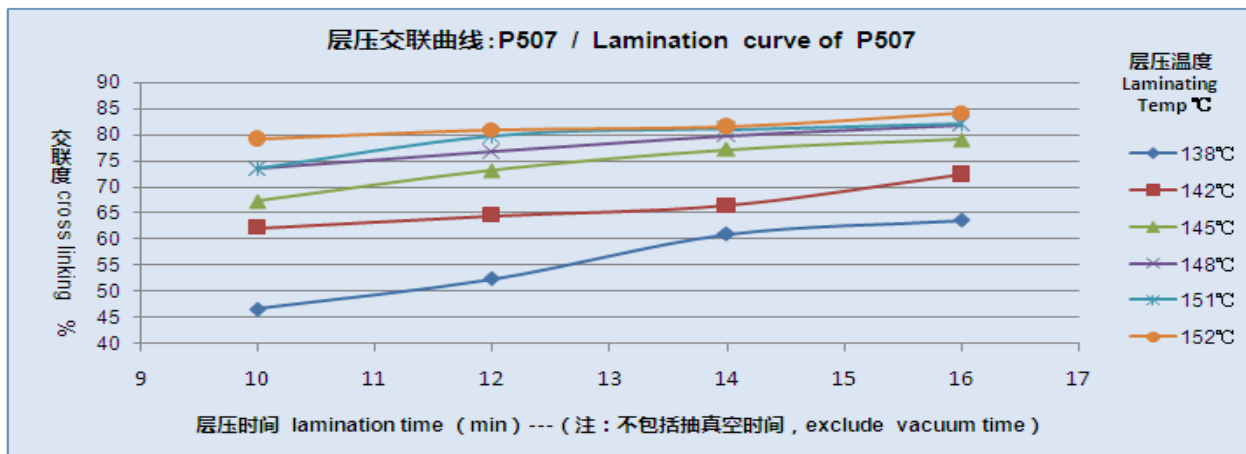
共挤型POE-P507 : 层压成品率高, 气泡少, 无并片, 层压时间短, 可以考虑免除层压工装.

Coextrusion POE-P507:High lamination yield , little bubbles, no cell string moving, shorten lamination time.



建议层压参数 suggest laminating parameters:

Temp 140-155°C, vacuum 5--7 min, keeping 11-17 min.



性能参数 Property

性能 Property	单位Unit	测试方法 Test Method	P507
宽度Width	mm	HIUV method	970-1050
厚度Thickness	mm		0.60±0.10
透光率 Optical Transmission (380-1100nm)	%		> 90
交联度 Gel content	Gel%	HIUV method	> 70
收缩率Shrinkage Rate (120°C, 3min)	%		MD≤4.0
			TD≤1.5
与玻璃剥离强度 Peeling Strength With Glass	N/cm	ASTM D903	> 60
与TPE背板剥离强度 Peeling Strength With TPE	N/cm		> 50
体积电阻率 Volume Insulating Resistance	Ω. cm	GB/T1410-2006	≥1×10 ¹⁵
耐紫外黄变 UV Light Resistance (120kWh/ m2)	ΔYI	ASTM G154	< 5.0
耐湿热黄变Heat/Humidity Resistance (80°C, 85%RH,2000hr)	ΔYI	ASTM E313	< 5.0