



**浙江中聚材料有限公司**

ZHEJIANG SINOPOLY MATERIALS CO.,LTD.

**Backsheet  
for Solar Modules**

**光伏背板**

**产品手册**



## □ 中聚NewCo-1500E

NewCo-1500E是中聚材料自主研发的无氟共挤一体化太阳能光伏背板白色系列的主打规格。该背板采用先进共挤出工艺生产无层间脱层风险，具有优异的耐水解防开裂性能、水汽阻隔性能、耐磨性能、耐候和断裂伸长率保持率等性能。适用于各种气候类型的应用场景，确保光伏组件户外长期使用可靠性。

NewCo-1500E is white, PO based backsheets, developed by Sinopoly Materials with their own IP technology. NewCo-1500E is produced by inventive co-extrusion technology without inter-layer delamination risks. It has excellent hydrolysis resistance, ultra-low water vapor transmission rate and good wear resistance. NewCo-1500E has excellent weather resistance, suitable for applications in various climate scenarios with proved long-term reliability for outdoor use of solar modules.

	测试项目 Item	单位 Unit	测试方法 Test Methods	NewCo 1500E
基本性能 Basic Properties	总厚度 Thickness	$\mu\text{m}$	GB/T13542.2	350
	有效绝缘厚度 (DTI) Distance through insulation	$\mu\text{m}$	IEC62788-2	305
	热收缩率(MD/TD) Shrinkage	%	GB/T13542.2	0.5
	与EVA剥离强度 Peeling strength to EVA	N/10mm	GB/T2790	60
	落砂测试 Sand drop test	L	GB/T13542.2	200
	击穿电压 Breakdown volt	kV	GB/T 1408.1	27
	局部放电 Partial discharging	V(DC)	GB/T 16935.1	1500
	内层反射率(400-700nm) Reflectivity (EVA Side)	%	ASTM E424	90
	水汽渗透率 Water vapor transmission rate	$\text{g}/\text{m}^2 \cdot \text{day}$	GB/T 26253	0.68
相对漏电起痕指数 (CTI) Comparative tracking index	V	GB/T 4207	600	
耐候性能 Weatherability	湿热老化 10000 hours Damp heat resistance	-	IEC 61215	不分层、不起泡、 不褶皱、 $\Delta b \leq 3$ No delamination, no bubble or fold, $\Delta b \leq 3$
	紫外老化 400kWh/m <sup>2</sup> UV Resistance			
	湿冻老化 30 cycles Damp freeze resistance			
	冷热循环 600 cycles Temperature cycles			
	PCT 200h (121°C,100%RH,2atm)			



## □ 中聚NewCo-1500B (XSH)

NewCo-1500B是中聚材料自主研发的无氟共挤一体化太阳能光伏背板黑色系列的主打规格。其中NewCo-1500B(XSH)是高反射率单面黑光伏背板，该背板采用先进共挤出工艺生产无层间脱层风险，具有高放射率，优异的耐水解、水汽阻隔性能、耐候和断裂伸长率保持率等性能。适用于各种气候类型的应用场景，确保光伏组件户外长期使用可靠性。

NewCo-1500B is black, PO based backsheets, developed by Sinopoly Materials with their own IP technology. NewCo-1500B(XSH) is a high-reflectivity single-sided black solar backsheets, it is produced by inventive co-extrusion technology without inter-layer delamination risks. It has excellent hydrolysis resistance, ultra-low water vapor transmission rate and high reflectance. NewCo-1500B(XSH) has excellent weather resistance, suitable for applications in various climate scenarios with proved long-term reliability for outdoor use of solar modules.

	测试项目 Item	单位 Unit	测试方法 Test Methods	NewCo 1500B(XSH)
基本性能 Basic Properties	总厚度 Thickness	$\mu\text{m}$	GB/T13542.2	350
	有效绝缘厚度 (DTI) Distance through insulation	$\mu\text{m}$	IEC62788-2	305
	热收缩率(MD/TD) Shrinkage	%	GB/T13542.2	0.5
	与EVA剥离强度 Peeling strength to EVA	N/10mm	GB/T2790	60
	落砂测试 Sand drop test	L	GB/T13542.2	200
	击穿电压 Breakdown volt	kV	GB/T 1408.1	27
	局部放电 Partial discharging	V(DC)	GB/T 16935.1	1500
	内层反射率(770-1100nm) Reflectivity (EVA Side)	%	ASTM E424	80
	水汽渗透率 Water vapor transmission rate	$\text{g}/\text{m}^2 \cdot \text{day}$	GB/T 26253	0.68
	相对漏电起痕指数 (CTI) Comparative tracking index	V	GB/T 4207	600
耐候性能 Weatherability	湿热老化 10000 hours Damp heat resistance	-	IEC 61215	不分层、不起泡、不褶皱、 $\Delta b \leq 3$ No delamination, no bubble or fold, $\Delta b \leq 3$
	紫外老化 400kWh/m <sup>2</sup> UV Resistance			
	湿冻老化 30 cycles Damp freeze resistance			
	冷热循环 600 cycles Temperature cycles			
	PCT 200h (121°C,100%RH,2atm)			



## □ 中聚NewCo-1500B (XDH)

NewCo-1500B是中聚材料自主研发的无氟共挤一体化太阳能光伏背板黑色系列的主打规格。其中NewCo-1500B(XDH)是高反射率双面黑光伏背板，该背板采用先进共挤出工艺生产无层间脱层风险，具有高放射率，优异的耐水解、水汽阻隔性能、耐候和断裂伸长率保持率等性能。适用于各种气候类型的应用场景，确保光伏组件户外长期使用可靠性。

NewCo-1500B is black, PO based backsheets, developed by Sinopoly Materials with their own IP technology. **NewCo-1500B(XDH)** is a **high-reflectivity double-sided black solar backsheets**, it is produced by inventive co-extrusion technology without inter-layer delamination risks. It has excellent hydrolysis resistance, ultra-low water vapor transmission rate and high reflectance. **NewCo-1500B (XDH)** has excellent weather resistance, suitable for applications in various climate scenarios with proved long-term reliability for outdoor use of solar modules.

	测试项目 Item	单位 Unit	测试方法 Test Methods	NewCo 1500B(XDH)
基本性能 Basic Properties	总厚度 Thickness	$\mu\text{m}$	GB/T13542.2	380
	有效绝缘厚度 (DTI) Distance through insulation	$\mu\text{m}$	IEC62788-2	305
	热收缩率(MD/TD) Shrinkage	%	GB/T13542.2	0.5
	与EVA剥离强度 Peeling strength to EVA	N/10mm	GB/T2790	60
	落砂测试 Sand drop test	L	GB/T13542.2	200
	击穿电压 Breakdown volt	kV	GB/T 1408.1	27
	局部放电 Partial discharging	V(DC)	GB/T 16935.1	1500
	内层反射率(770-1100nm) Reflectivity (EVA Side)	%	ASTM E424	80
	水汽渗透率 Water vapor transmission rate	$\text{g}/\text{m}^2 \cdot \text{day}$	GB/T 26253	0.68
	相对漏电起痕指数 (CTI) Comparative tracking index	V	GB/T 4207	600
耐候性能 Weatherability	湿热老化 10000 hours Damp heat resistance	-	IEC 61215	不分层、不起泡、 不褶皱、 $\Delta b \leq 3$  No delamination, no bubble or fold, $\Delta b \leq 3$
	紫外老化 400kWh/m <sup>2</sup> UV Resistance			
	湿冻老化 30 cycles Damp freeze resistance			
	冷热循环 600 cycles Temperature cycles			
	PCT 200h (121°C,100%RH,2atm)			



绿色能源材料 助力零碳未来