

CY25HTGU 聚酯薄膜技术要求

Technical Data Sheet of CY25HTGU Polyester Film

1. 产品简介 INTRODUCTIONS

江苏裕兴薄膜科技股份有限公司主要从事特种功能性聚酯薄膜的研发、生产、销售，是国内规模最大的特种功能性聚酯薄膜生产企业之一。公司通过 ISO9001 质量管理体系、ISO14001 环境质量管理体系和职业健康安全管理体系认证，多个品种通过美国 UL 实验室安全认证和环保测试，符合欧盟 ROHS 环保要求，公司高分子材料检测中心通过 CNAS 实验室认可。

CY25HTGU 聚酯薄膜是我司自主研发的一款具有耐水解性能、抗紫外性能的透明耐候 BOPET 聚酯薄膜，同时具有良好的尺寸稳定性、电气绝缘性等特点。主要应用于户外等有耐候要求的产品，如双面发电太阳能背板领域等，可以有效提高发电效率、增加产品使用寿命、降低产品长期使用成本。

Jiangsu Yuxing Film Technology Co., Ltd is one of the leading BOPET polyester film manufacturers in China. As a high-tech enterprise, Jiangsu Yuxing Film Technology Co., Ltd has passed ISO9001, ISO14001 and Occupational Health and Safety Management System certification. Many varieties have passed the UL Certification and environmental protection test, and meet the EU ROHS environmental protection requirements. And the testing center is accredited by CNAS laboratory.

CY25HTGU polyester film is a transparent weather-resistant BOPET polyester film with hydrolysis-resistance and UV-resistance independently developed by our company. It also has the characteristics of good dimensional stability and electrical insulation. It is mainly applicable in the production of the double-sided solar cell back sheets with high weather resistance requirements, which effectively improve the power generation efficiency, increase the service life and reduce the long-term use cost of the product.

2. 产品典型性能 TYPICAL PERFORMANCES

表 1 为我司 CY25HTGU 聚酯薄膜的性能典型值。

Table 1 shows the typical performance values of CY25HTGU polyester film.

表 1 CY25HTGU 聚酯薄膜的性能典型值

Tab.1 Typical performance values of CY25HTGU

序号 No.	项目 Item	单位 Unit	典型值 Typical values					试验方法 Test method
1	标称厚度 Thickness	μm	50	75	125	275	300	GB/T 13542.2-2021
2	拉伸强度 Tensile strength	MD	MPa	140	140	140	170	
		TD		150	150	150	170	
3	断裂伸长率 Elongation at break	MD	%	130	130	130	140	
		TD		90	100	110	110	
4	尺寸变化 Dimensional stability (150℃,30min)	MD	%	1.0	1.0	1.0	0.7	
		TD		0	0	0	0	

5	透光率 Transmittance		%	87	87	87	86	86	ASTM D1003
6	紫外阻隔率(280~380nm) UV blocking rate		%	93	94	95	95	95	紫外可见分光光度法 UV-vis spectrophotometry
7	PCT 老化试验 断裂伸长率 PCT accelerated aging Retention of Elongation to break	MD	%	40	40	40	40	40	121℃,100%RH, 2atm,48h
		TD		50	50	50	50	50	
8	抗紫外试验 UV Test 150kwh/m ² △b		/	5.0	5.0	5.0	5.0	5.0	IEC 61215

注：抗紫外性能可根据客户要求定制

3. 贮存条件 STORAGE CONDITIONS

贮存在整洁、干燥、通风处，不应靠近火源、暖气或受日光直射。

Stored in a clean, dry, ventilated place, keep away from fire and heating, avoid direct sunlight.