



## LUCKY FILM CO., LTD.

Lucky Film Co., Ltd, a subsidiary of China Lucky Film Corp., which was acquired by CASC (China Aerospace Science & Technology Corp.) In 2012, is a production and R&D base integrating color photosensitive material, Film material etc. the company was incorporated in Jan.16, 1998 and listed in Shanghai Stock Exchange House the same year.

The company boasts complete state of art production lines on new energy material, emulsion make, color photo film coating, color photo paper coating, color film finishing, color paper packing as well as photo chemicals. Besides, the advanced inspection equipments, QC and well built logistics management center ensures the smooth operation of the company.

For forging a system supplier for PV material, with the expanding RD and production based on Lucky' s own strength, a EVA film was successfully put into production in the year 2011, in addition, the PV silver paste of Lucky has passed the qualification test of the down stream customers and will be put to the market later this year 2012..

Following the strategic aim of 12th 5 year plan of the company, Lucky Film Co., Ltd is expanding the production scale in PV industry. It' s expected by the year 2015, Lucky will register a yearly back sheet production capacity of 85 million SQM, EVA 50million SQM, PV silver paste 500 tons. Till then Lucky Film Co., Ltd will be biggest PV material supplier in China.

## LUCKY BACKSHEET FOR SOLAR MODULE Type:PPE-B2 (White)

Item	Specification		Value	Method
1	Vapor transmission rate (g/m <sup>2</sup> · d)		≤ 1.5	ASTMF-1249
2	Partial discharge (VDC)		> 1000	IEC60664-1:2002
3	Breakdown voltage (KV)		> 22	ASTM D-149-97a
4	Tensile strength (350mm/min)	MD (MPa)	≥ 110	ASTM D882-02
		TD (MPa)	≥ 110	ASTM D882-02
5	Elongation to break	MD (%)	≥ 120	ASTM D882-02
		TD (%)	≥ 100	ASTM D882-02
6	Heat shrinkage (150 °C /30min)	MD (%)	≤ 1.0	ASTM D882
		TD (%)	≤ 0.5	ASTM D882
7	EVA adhesion (N/cm)		≥ 60	GB/T8808-A
8	Layer peel strength		≥ 5.0	GB/T8808-A
9	Ageing-resistant performance ( hour )		≥ 2000	GB/T 16422.2
10	Reflection		≥ 93%	GB/T 2680-1994