

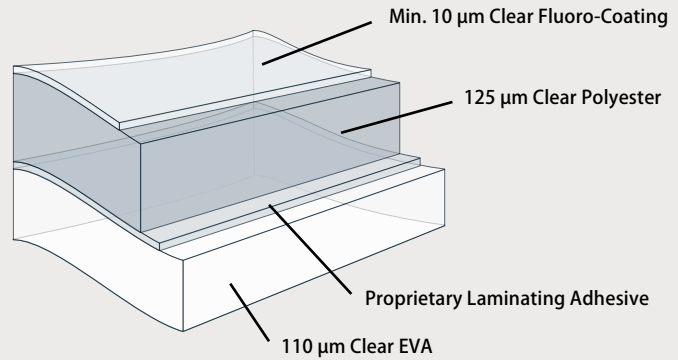
VueTek™ Datasheet

Transparent Backsheets for Bi-Facial and BIPV panel designs

MATERIAL COMPOSITION

TEST:	
Thickness*	250 µm
Width Range	25-1700 mm
Weight	310 g/m ²
Density	1.18 g/cm ³
Fluoro-Coating Colors	Clear
EVA Colors	Clear

CLEAR FLUORO-COATING/CLEAR PET/CLEAR EVA



TECHNICAL CHARACTERISTICS

TEST:	TEST SPECIFICATION(S):	RESULTS:
Tensile Strength at Break (MD)	Internal Testing – Data Available	100 MPa (MD)
Elongation at Break (MD)	Internal Testing – Data Available	140% (MD)
Tear Strength (MD/TD)	Internal Testing – Data Available	6 N (MD) / 13 N (TD)
Dimensional Stability	150°C for 30 min; Internal Testing – Data Available	≤ 1.7%
EVA Peel Strength from Encapsulant	Internal Testing – Data Available	≥ 40 N/cm
Peel Strength of Layers	PET / EVA	≥ 5 N/cm

OPTICAL CLARITY TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Visible Light Transmission (VLT)	400 NM-1200 NM; BYK Gardner HazeGuard plus	≥ 90%
HAZE	BYK Gardner HazeGuard plus	7% - 12%

WEATHERABILITY TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Relative Thermal Index (RTI)	Suitable for use at continuous 85°C	105°C
Damp Heat Testing	85°C, 85% RH; IEC 61215	2000 Hours
Heat Freeze Humidity	In accordance with UL 1703; >10 cycles	>70% of initial mechanical properties retained
UV Stability	In accordance with UL 746C; 2500 hours	>70% of initial mechanical properties retained
MVTR	In accordance with ASTM F1249	≤ 2.5 g/m ² per day

ELECTRICAL INSULATION TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Partial Discharge	IEC 60664-1	>1000 VDC

*Theoretical nominal

This product is covered by one or more U.S. patents and pending U.S. and other patent applications. Please see www.madico.com/patents Typical Data – Not Specification © 2012 Madico, Inc.

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PV BACKSHEETS