

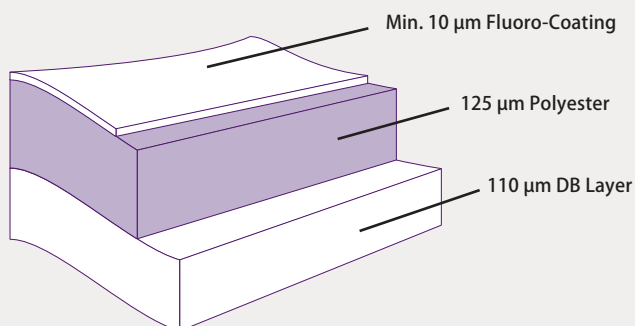
# Reflekt® Prime Datasheet

Highly Reflective Backsheets based on Extrusion Technology

## MATERIAL COMPOSITION

TEST:	RESULTS:
Thickness*	245 µm
Width Range	25-1830 mm
Weight	315 g/m <sup>2</sup>
Density	1.15 g/cm <sup>3</sup>
Coating Color Options	White
EVA Color Options	White

FLUORO-COATING / PET / DB LAYER



## 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	135% (MD)
Tear Strength (MD/TD)	Internal Testing – Data Available	13 N (MD) / 16 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
Reflectance Range	BYK Gardner Color-Sphere and Perkin-Elmer UV-Vis-NIR Lambda 950 spectrometer	>90%

## WEATHERABILITY TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Relative Thermal Index (RTI)	Suitable for use at continuous 120°C	130°C
Damp Heat Testing	85°C, 85% RH IEC 61215	3000 Hours
Heat Freeze Humidity	In accordance with UL 1703, >10 cycles	>70% of initial mechanical properties retained
UV Stability	In accordance with UL 746C	>70% of initial mechanical properties retained
MVTR	In accordance with ASTM F1249	≤ 2.5 g/m <sup>2</sup> per day

## ELECTRICAL INSULATION TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Partial Discharge	IEC 60664-1	> 1000 VDC
Dielectric Strength	UL 746 A	18 kV

\*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](http://www.madico.com/patents) Typical Data – Not Specification © 2013 Madico, Inc.

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