

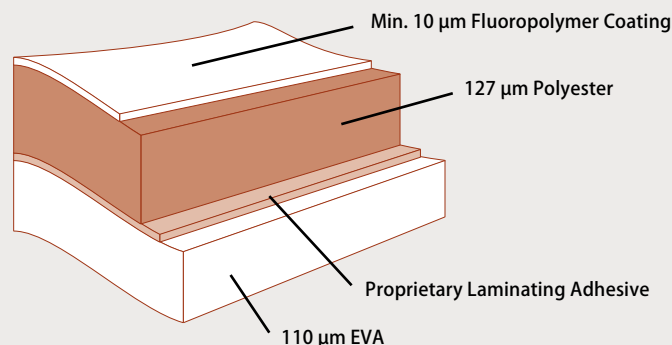
# HyTek™ Datasheet

The Next Generation in Protekt® Backsheets

## MATERIAL COMPOSITION

TEST:	RESULTS:
Thickness*	252 µm
Width Range	25 - 1700 mm
Weight	320 g/m <sup>2</sup>
Density	1.16 g/cm <sup>3</sup>
Coating Color	White
EVA Color Options	All

FLUOROPOLYMER COATING / PET / 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	135% (MD)
Dimensional Stability	150°C for 30 min; Internal Testing – Data Available	≤ 1.5%
EVA Peel Strength from Encapsulant	Internal Testing – Data Available	≥ 40 N/cm
Peel Strength of Layers	PET / EVA	≥ 5 N/cm
Relative Thermal Index (RTI)	Suitable for use at continuous 85°C	105°C

## FLAME RESISTANCE TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Flame Spread Index	In accordance with ASTM E162	38
High-current Arc Ignition (HAI)	UL7464	PLC1

## WEATHERABILITY TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Damp Heat Testing	85°C, 85% RH; IEC 61215	≥ 1000 Hours
Heat Freeze Humidity	In accordance with UL 1703, >10 cycles	>70% of initial mechanical properties retained
UV Stability	In accordance with UL 746C	≥ 2000 Hours
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	ASTM D149	21 kV
Comparative Tracking Index (CTI)	IEC 60112	600 Volts

\*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 © 2014 Madico, Inc.

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