

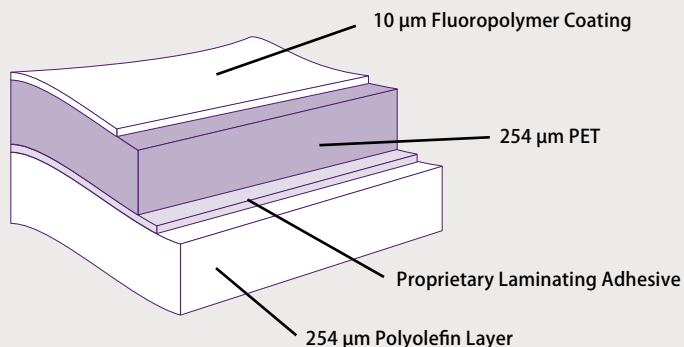
# Reflekt® HV Datasheet

Highly Reflective Backsheet for High System Voltage (1500 VDC) & Type 1 Module

## MATERIAL COMPOSITION

TEST:	RESULTS:
Thickness*	523 µm
Width Range	51 - 1700 mm
Weight	653 g/m <sup>2</sup>
Density	1.14 g/cm <sup>3</sup>
Coating Color (air side)	White
Polyolefin Color Options (cell side)	All Colors**

FLUOROPOLYMER COATING / PET / POLYOLEFIN



## TECHNICAL CHARACTERISTICS

TEST:	TEST SPECIFICATION(S):	RESULTS:
Tensile Strength at Break (MD)	Internal Testing – Data Available	91 MPa (MD) / 85 MPa (TD)
Elongation at Break (MD)	Internal Testing – Data Available	126 % (MD) / 90 % (TD)
Dimensional Stability	150°C for 30 min; Internal Testing – Data Available	≤ 1%
Polyolefin Peel Strength from Encapsulant	Internal Testing – Data Available	≥ 40 N/cm
Peel Strength of Layers	PET/Polyolefin	≥ 5 N/cm
Reflectance Range	400-700 nm	≥ 90%
Relative Thermal Index (RTI)	Suitable for continuous use at 85°C	105°C

## WEATHERABILITY TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Damp Heat Testing	85°C, 85% RH IEC 61215	≥ 1000 Hours
Heat Freeze Humidity	UL 1703, >10 cycles	>70% of initial mechanical properties retained
UV Stability	UL 746C	≥ 2000 Hours
MVTR	ASTM F1249	≈ 1 g/m <sup>2</sup> per day

## ELECTRICAL INSULATION TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Partial Discharge	IEC-60664, IEC-61730	≥ 1500 VDC

## FLAME RESISTANCE TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Flame Spread Index	ASTM E162	≤ 100

\*Theoretical nominal

\*\*Use of Non-white Polyolefin will not provide the specified reflectance

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

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