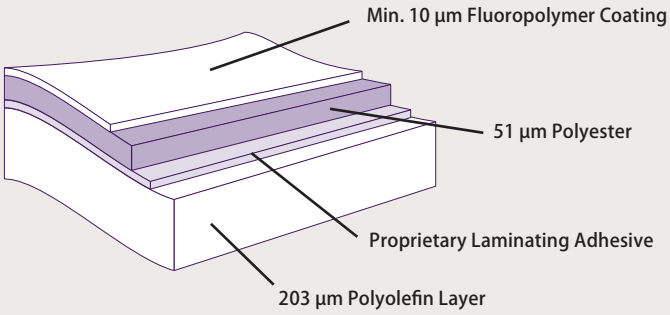
Reflekt® Lean Datasheet

Highly Reflective Fluoropolymer Based Backsheets for Type 2 Modules

MATERIAL COMPOSITION

TEST:	RESULTS:
Thickness*	269 µm
Width Range	25-1700 mm
Weight	310 g/m²
Density	1.11 g/cm³
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	45 MPa (MD) / 50 MPa (TD)
Elongation at Break (MD)	Internal Testing – Data Available	125% (MD) / 63% (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	≤ 1.5 g/m² per day

ELECTRICAL INSULATION TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Partial Discharge	IEC-60664, IEC-61730	≥ 1000 VDC

FLAME RESISTANCE TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Flame Spread Index	ASTM E162	57

*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 Typical Data – Not Specification

TUV / VDE PD Cert. JET

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MADICO® PV BACKSHEETS