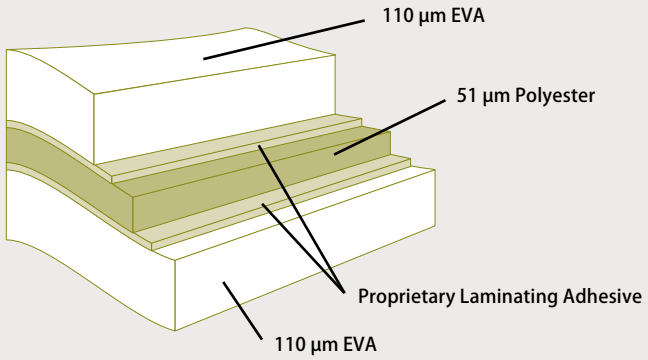
InsulPatch® Datasheet

Laminates for PV Electrical Insulating Applications

MATERIAL COMPOSITION

TEST:	RESULTS:
Thickness*	281 µm
Width Range	25 - 1700 mm
Weight	285 g/m²
Density	1.15 g/cm³
EVA Colors	All

EVA / PET / EVA



TECHNICAL CHARACTERISTICS

TEST:	TEST SPECIFICATION(S):	RESULTS:
Tensile Strength at Break (MD/TD)	Internal Testing – Data Available	40 MPa (MD) / 50 MPa (TD)
Elongation at Break (MD/TD)	Internal Testing – Data Available	145% (MD) / 80% (TD)
EVA Peel Strength from Encapsulant	Internal Testing – Data Available	≥ 40 N/cm
Relative Thermal Index (RTI)	Suitable for continuous use at 85°C	105°C

ELECTRICAL INSULATION TESTING PERFORMANCE

TEST:	TEST SPECIFICATION(S):	RESULTS:
Partial Discharge	IEC 60664-1	≥ 1000 VDC
Dielectric Strength	UL 746 A	≥ 17 kV
Volume Resistivity		16 10^{x}ohm-cm
Comparative Tracking Index (CTI)	Thickness tested: 3.0mm	≥ 600V

*Theoretical nominal

Madico PhotoVoltaic Backsheets
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USA

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www.madicopv.com

V0730 R10

MADICO® PV BACKSHEETS

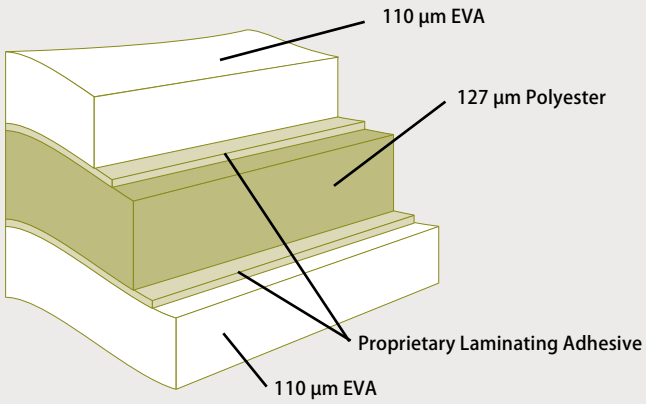
InsulPatch® HD Datasheet

Laminates for PV Electrical Insulating Applications

MATERIAL COMPOSITION

TEST:	RESULTS:
Thickness*	357 µm
Width Range	25 - 1700 mm
Weight	670 g/m^2
Density	1.18 g/cm^3
EVA Colors	All

EVA / PET / EVA



TECHNICAL CHARACTERISTICS

TEST:	TEST SPECIFICATION(S):	RESULTS:
Tensile Strength at Break (MD/TD)	Internal Testing – Data Available	90 MPa (MD) / 100 MPa (TD)
Elongation at Break (MD/TD)	Internal Testing – Data Available	180% (MD) / 130% (TD)
EVA Peel Strength from Encapsulant	Internal Testing – Data Available	≥ 40 N/cm
Relative Thermal Index (RTI)	Suitable for continuous use at 85°C	105°C

ELECTRICAL INSULATION TESTING PERFORMANCE

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

*Theoretical nominal

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V0850 R08

MADICO® PV BACKSHEETS

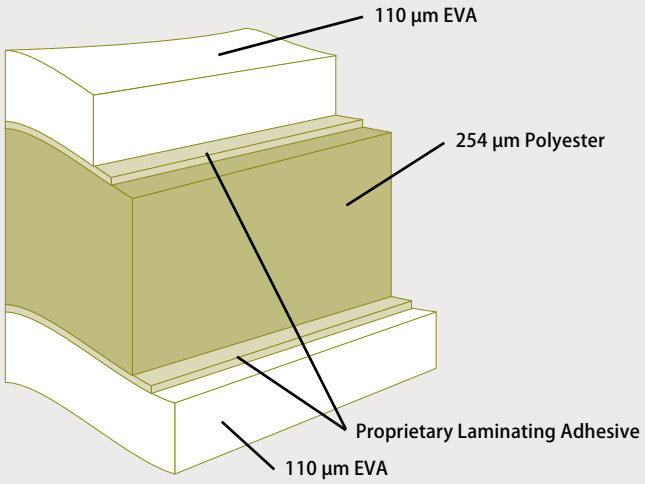
InsulPatch® SHD Datasheet

Laminates for PV Electrical Insulating Applications

MATERIAL COMPOSITION

TEST:	RESULTS:
Thickness*	484 µm
Width Range	25 - 1700 mm
Weight	1000 g/m^2
Density	1.18 g/cm^3
EVA Colors	All

EVA / PET / EVA



TECHNICAL CHARACTERISTICS

TEST:	TEST SPECIFICATION(S):	RESULTS:
Tensile Strength at Break (MD/TD)	Internal Testing – Data Available	100 MPa (MD) / 120 MPa (TD)
Elongation at Break (MD/TD)	Internal Testing – Data Available	175% (MD) / 130% (TD)
EVA Peel Strength from Encapsulant	Internal Testing – Data Available	≥ 40 N/cm
Relative Thermal Index (RTI)	Suitable for continuous use at 85°C	105°C

ELECTRICAL INSULATION TESTING PERFORMANCE

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

*Theoretical nominal

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V0851 R07

MADICO® PV BACKSHEETS