PV ENCAPSULANT TECHNICAL DATA SHEET

Doc. No: SP-11-26 / Published Date: 24.11.2023 / Rev. No: 00 /Rev. Date:

Product Code
GP SOLAR EPE-T
Product Description
Product Features
Excellent Anti PID Performance
High Insulation
Outstanding Adhesion
Excellent UV Protection
Better Cross-linking Speed
Excellent Weatherability and Long Term Reliability

Physical Properties

ITEM	UNIT	VALUE	STANDARD
Total Thickness	mm	Target Value ± 0.05%	GNC Method
Total Width	mm	Up to 1300	GNC Method
Tensile strength (MD)	%	≤3	ASTM D-882
Adhesion to Glass (with Backsheet)	N/cm	≥60	ASTM D 903
Adhesion to Backsheet	N/cm	≥60	ASTM D 903
Tensile Strength (Cured)	MPa	≥10	ASTM D 638
Ultimate Elongation (Cured)	%	≥500	ASTM D 638
Gel content	Gel%	≥70	ASTM D2765
Thermal Shrinkage	%	≤4	ASTM 1204

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Aging Properties

ITEM	UNIT	VALUE	STANDARD
UV Resistance (120 kWh/m^2)	-	△YI ≤5	ASTM G154
Humidity and Heat Resistance	-	△YI ≥5	ASTM E313

Optical Properties

ITEM		UNIT	VALUE	STANDARD
Optical Transmittance	(380-1100nm)	%	≥90	ASTM D1003
UV Cut-off Wave Length	(290nm-380nm)	%	≤30	ASTM D1003

Insulating Properties

ITEM	UNIT	VALUE	STANDARD
Volume Resistivity (Cured)	Ω·cm	≥1×10^{16}	ASTM D257
Dielectric Strength	kV/mm	I≤ 28	ASTM D149
Component Power Loss	%	I≤ 5	IEC G2804

Water Barier

ITEM	UNIT	VALUE	STANDARD
Water vapor transmission rate	g/m^2 .day	≤5	ASTM F1249

Recommend Lamination Condition (Gel content > 70%)

	Single chamber laminator
Temperature (°C)	130 - 150
Vacuum time (min)	5 - 10
Pressing time (min)	10 - 15
Pressing pressure (KPa)	(-80) – (-25)

**Due to continuous efforts to improve, specifications and key characteristics covered in this datasheet may vary slightly in comparison to the actual product. Goncay reserves the right to adjust any of the above information accordingly without prior notice*

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Storage Conditions	
	Avoid direct sunlight
	25±15°C, 55±15%RH
	6-12 months shelf life (3 months shelf life for best yield)
	Use up within 6 hours after opened

Package	
100 m/roll	150 m/roll
400 m/roll	8 cm core

Precautions
EPE-T should not be exposed to the atmosphere for long periods. Lengthy exposure will cause a decrease in properties
Store in a cool, dry and well-ventilated place. Keep away from heat and sunlight, as well as strong oxidizing materials
Swiftly use up contents once opened - return the unused to its original packaging
Avoid making contact with bare hands, water, oil, organic solvents, and other chemicals

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