PV ENCAPSULANT TECHNICAL DATA SHEET

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

Product Code
GP SOLAR EVA
Product Description
Product Features
High transparency
High UV cut-off
High volume resistance
Anti-PID
High gel content
No bubbling, no cell shifting, high production efficiency

Physical Properties

ITEM		UNIT	VALUE	STANDARD
Unit gram		g/m^2	≥ Target Value	GNC Method
Thickness		um	Target Value ± 10%	GB/T 6672-2001
Width		mm	200-2200	GNC Method
Hardness		ShaoA	20	ASTM D-2240
Density		g/cm^3	0.95	ISO 1183
Tensile strength	MD	Mpa	≥6.0	ASTM D-882
	TD	Mpa	≥5.0	
Elongation of break	MD	%	≥600	
	TD	%	≥600	
Peel strength with backsheet		N/cm	≥40	GB/T 29848-2013
Peel strength with glass		N/cm	≥60	
Gel content		Gel%	≥80	
VA content		wt%	28 ± 4	

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Thermal Shrinkage	%	≤4	ASTM 1204

Aging Properties

ITEM		UNIT	VALUE	STANDARD
85°C 85% RH 1000H	Yellow Index	-	△YI ≤3	GB/T 29848-2013
	Peel strength with glass	N/cm	≥40	GB/T 29848-2013
UV	120Kw.h	-	△YI ≤5	ISO 15106-3

Optical Properties

ITEM		UNIT	VALUE	STANDARD
Transmittance	380-1100nm	%	≥91	GB/T 29848-2013
UV Cutting range		nm	360	GB/T 29848-2013

Insulating Properties

ITEM	UNIT	VALUE	STANDARD
Volume resistivity	Ω·cm	$\geq 1\times10^{15}$	GB/T 29848-2013

Water Barier

ITEM		UNIT	VALUE	STANDARD
Water vapor transmission rate	38°C×90% RH, 500um	g/m^2 .day	≤40	-

Recommend Lamination Condition (Gel content > 80%)

	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
EVA 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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