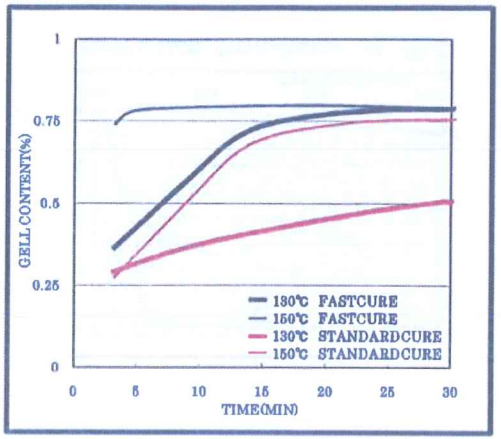
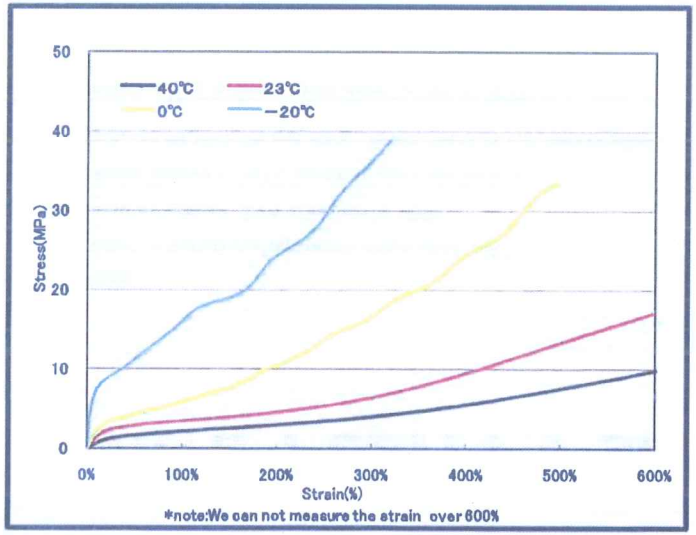
4.Curing Properties of PV-Encapsulant EVA



Test Method
①EVA is Cured at 130℃ or 150℃.
②After cooling EVA, Non-Gel EVA is extracted by Xylene.

5.Stress-Strain Curve of Fast Cure type



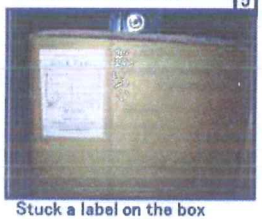
6. Package

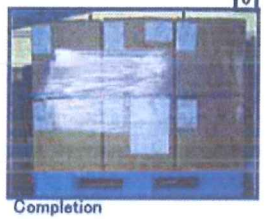
1 Wrap a roll in PE Sheet

2 Attach plinths to the both

3 Put the roll into a box

4 Shut the box


5 Stuck a label on the box


6 Completion

	Length	Weight	Core
Width:1000mm	150m	about 70Kg	Material : paper Inside Diameter: 3inch

Contact

For further information about

Manufacturer: *Tel:* *Fax:*	

PV series

1. Facts

- Specializes in manufacturing plastic sheet since 1951
- Manufactures ordinary EVA sheet since 1965
- Built Hosoe factory in 1971, currently our main factory
- Manufactures PE,PP,EVA and other plastic sheet as our main products now
- New factory added in Hamamatsu Nishi factory in 2008

2. Advantage of Our PV-EVA

- Excellent Durability and Adhesion
- Little Heat Shrinkage
- Easy Handling
- Thickness 0.20 ~ 1.00 mm
- Width max 1800 mm
- Excellent Light Transmittance (See Figure1)

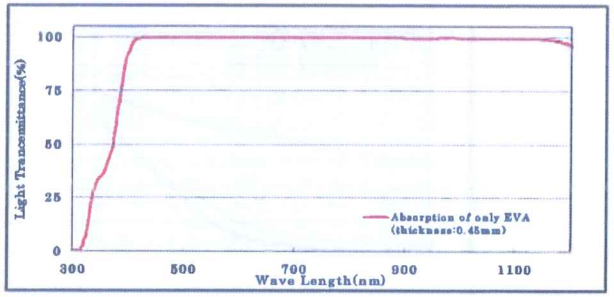


Figure1 : Light Transmittance of PV-Encapselant EVA

3.Basic properties of Our PV-EVA

	Test method	Unit	Standard Cure	Fast Cure
Typical Thickness		mm	0.4,0.6	0.45
Typical Width		mm	800~1000	800~1000
Young's modulus	JIS K-7161	MPa	1290	1180
Refractive Index	JIS K-7142		1.487	1.486
Water Vapor Transmission Rate	JIS K7129	g/m²·24h	13	15
Volume Resistance	JIS K-6911	Ω·cm	2.0×10^{13}	2.5×10^{14}
Specific Heat Capacity	JIS K-7123	J/g°C (23°C)	2.39	2.5
Heat Conductivity	ASTM E-1530	W/mK	0.21	0.22
Adhesion (for Glass)	Our Method	kgf/cm	1.0 or above	1.0 or above
UV irradiation Test (100mw/cm² × 500Hr)	Visual Observation (laminated glass)		No yellowish	No yellowish
Dry Heat Test (85°C × 1000Hr)	Adhesion Retention Strength	%	85 or above	85 or above
	Yellowness Index JIS K-7103	ΔYI	See Fig2	
Humidity Test (85°C·85%RH × 1000Hr)	Adhesion Retention Strength	%	60 or above	60 or above
Light Trancemittance		%	92 or above	92 or above

Note : measured values are representative values , not guaranteed values

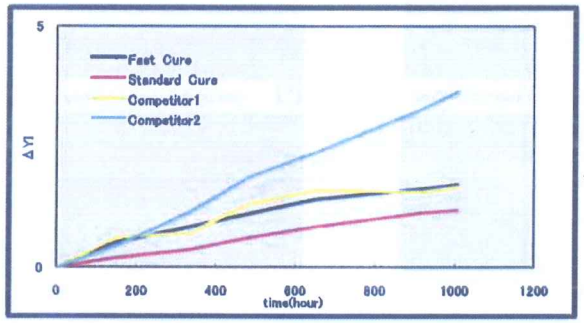


Figure2 : ΔYI of EVA