Howto Test Properties of Glass Laminatining Ethylene-vinyl acetate EVA Interlayer Film

Created by CNCGLASS INTERLAYER TECH China Ethylene-vinyl acetate EVA Interlayer Film Manufacturer for Safety Architectural Laminated Glass. www.cncnext.com/ cnc@cncnext.com

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IMPORTANT PROPERTIES OF EVA FILM

- High tensile strength
- Excellent transparency
- Outstanding adhesion strength
- UV protection
- High impact resistance
- Good temperature withstanding
- Water proof
- Humidity durable
- Long-term reliable (long-term aging resistance)
- Sound barrier





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Contact Us:cnc@cncnext.com / www.cncnext.com/benext77@gmail.com

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Technical Datasheet of EVA Film

Technical Parameters of Ethylene-vinyl acetate EVA Interlayer Film for

	Laminated Glass	www.cncnext.com
SUPER-TRANSPARENT EVA FILM TECHNICAL PARAMETERS		
Test Item	Test Method	ST EVA FILM
Tensile Strength(After cross-link)	LAB METHOD	20 MPA
Adhesion of Glass	LAB METHOD	103N/20mm(180°pealing 剥离)
Adhesion of organic polymer film	LAB METHOD	120N/20mm(180°pealing 剥离)
High Transmittance	LAB METHOD	≥91.0%
HAZE	LAB METHOD	0.29%
UV Blocked Rate	LAB METHOD	99%
Elongation(After cross-link)	ASTMD638	560%
Water Absorption	LAB METHOD	⊴0.01%
Cross-link rate (135 degrees C,20mins)	LAB METHOD	82%
Heat-resistanceIn the 100°C water for 2 hrs	GB-15763.3-2009	No bubbles, no de-lamination
Humidity-Resistance(60°C,95% RH:400hrs)	LAB METHOD	No bubbles or Haze appeared
ANTI-Aging(50°C,65%RH,Radiation 3000 Hrs)	LAB METHOD	Light change≤3.0%, No yellow change
Heat&cold shock (Cold-40°C30min, Heat80°C 30mins:50 circles)	LAB METHOD	No delamination and bubbles
Impact Resistance Against Shot-Bag	GB-15763.3-2009	Qualified
Ball Impact Peeling Resistance	GB-15763.3-2009	Qualified
Useful Life	LAB METHOD	≥15 Years





Testing tensile strength, pealing strength of EVA Film

[Universal Testing Machine]

We can use this equipment to test the tensile strength of EVA Film, and also the peeling strength between the EVA Film and Glass surface, or between the polymer sheet surface and EVA Film.





Testing impact resistance of EVA Film

[Impact testing Equipment]

To test the impact resistance of the laminated glass made of the EVA Film samples to be tested.





Testing Aging-resistance

[UV Radiation Accelerating Aging Tester]

Accelerated Aging Tester adopts fluorescent UV light UVA-340 and the water-spray system in order to imitate the damage of sunlight, rain, humidity etc.

The samples is under UV radiation damage and the water spray damage circularly.The damage intensity would be more than 10 times of the damage in the natural environment. The damage is like: fading, changing color, delamination, haze, bubbles, embrittlement , aging, oxidation etc.





Testing heat-resistance, humidity-resistance and weather-resistance of EVA Film

[Constant Temperature and Humidity Test]

You can test EVA Film under great humidity environment or high temperature. And you can also test EVA Film under cold and hot circling environment, like -40degree C for 30 minutes and 85 degree C for 30 minutes as a circle





Testing Haze of EVA Film

[Haze Tester]

You can test the haze of the laminated glass made of EVA Film, and also the transmittance of laminated glass of testing EVA Film





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TESTING gel content determination of cross-linked EVA Film

[Test system of gel content determination of cross-link reacted EVA Film]

To see how many percent of gel content of the EVA Film after laminating heating processed(after cross link reacted)





Easy way to Testing Transmission Values of UV(ultraviolet radiation), Visible Light and Infrared Ray

[Laminated Glass Spectrometer]

is able to simultaneously measure the Transmission Values of UV(ultraviolet radiation), Visible Light and Infrared Ray. The Spectrometer is self-contained light sources and automatic calibration. No man-driven adjustment is needed. The users only need to plug the power supply, turn on the switch and put the Laminated Glass in the opening. Then the measure data would appear on the display automatically.





Testing UV radiation blacked rate of EVA Film

[Spectrophotometer]: Test the UV radiation blacked rate of laminated glass made of testing EVA Film samples. You can test the blacked rate at different wavelength.





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China EVA Film for Smart Glass, Privacy Glass, LED Glass etc.

China Switchable Film for Privacy Glass, Smart Glass.

[cnc@cncnext.com / www.cncnext.com / benext77@gmail.com / benext77@hotmail.com) (eva@evafilms.com / www.evafilms.com]

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(uc@ucolin.com / www.ucolin.com /umewe360@gmail.com/umewe360@hotmail.com)

Peter Lin cnc@cncglass.com

