CNCGLASS
CNC Ucolin Interlayer Technology Co., Ltd.
SHENZHEN, GD, CHINA
Peter Lin · cnc@cncglass.com · WhatsApp / Mobile +86 15013829504
WeChat wecan365 · www.cncglass.com

CNCGLASS EVA Laminating Film, Milky White Translucent, for Safety and Decorative Laminated Glass

CNCGLASS milky white EVA laminating film is an ethylene–vinyl acetate interlayer made for laminated safety glass and for decorative laminates that need a soft, milky, translucent bond line. The film is milky white and translucent both as supplied and after a proper laminating cycle. During that cycle a three-dimensional cross-linked network forms in the interlayer, giving the film a thermoset character and the strength required of a safety interlayer, while a light scattering pigment produces a gentler, more opalescent white than a polar or high-opacity white.

Typical figures are indications, depend on the laminating process, and do not constitute a listing or an approval. The laminator must confirm fitness for the intended use.

Process window and supply form

The laminating window is 105 °C to 160 °C, by vacuum lamination or by a pre-bond step followed by an autoclave. Thickness is offered from 0.2 mm to 1.14 mm, width from 800 mm to 2,400 mm, on a 76 mm cardboard core, packed in cartons. Other dimensions and packing can be arranged. Store below 30 °C and below 80 % relative humidity, use the film within twelve months of delivery, and protect opened rolls from direct sun and from soiling.

Typical material character

The milky white grade is slightly denser than our clear and polar-white films. Density by ISO 1183 is typically 0.97 to 0.99 g/cm³, a difference that comes from the scattering package in the formulation. The mechanical figures remain in the same family: tensile strength by ISO 527-3 typically greater than 5 N/mm² in both directions before cross-linking and greater than 20 N/mm² afterwards; elongation at break typically greater than 700 % before cross-linking and greater than 400 % afterwards, in both directions; hardness typically greater than 65 Shore A by DIN 53505. Optical density is about 0.1 for a 0.380 mm film — a lighter, more translucent milky white than the polar white grade, whose optical density at the same thickness is about 0.2. Designers who want a faint frost rather than a pronounced white diffusion will usually prefer this milky grade; those who want a stronger white veil will usually prefer the polar white film.

A compact view of the typical figures

The table collects the supply window and the typical figures, including the slightly higher density that is characteristic of this milky white grade.

Topic	Typical figure
Density (ISO 1183)	0.97 – 0.99 g/cm³
Appearance, as supplied / after lamination	Milky white translucent / milky white translucent
Tensile strength, uncross-linked (ISO 527-3)	MD and CD greater than 5 N/mm²
Tensile strength, cross-linked (ISO 527-3)	MD and CD greater than 20 N/mm²
Elongation at break, uncross-linked (ISO 527-3)	MD and CD greater than 700 %
Elongation at break, cross-linked (ISO 527-3)	MD and CD greater than 400 %
Hardness (DIN 53505)	Greater than 65 Shore A
Optical density, 0.380 mm film	About 0.1
Laminating temperature window	105 °C to 160 °C
Process route	Vacuum lamination, or pre-bond and autoclave
Thickness / width / core	0.2–1.14 mm / 800–2,400 mm / 76 mm cardboard
Storage	Below 30 °C, below 80 % RH, use within 12 months

Typical indications for this grade. Optical density is stated for a 0.380 mm film. Fitness for use must be confirmed by the processor.

Evaluating a milky white laminate

A milky white interlayer is often chosen for interior partitions, furniture glass, and decorative façades where a soft diffusion is wanted without a heavy color. Safety and durability should still be judged with the methods commonly applied to this class of EVA interlayer: pendulum impact under DIN EN 12600, ball-drop work under DIN 52338 and DIN EN 356, heat, humidity, and ultraviolet resistance under DIN EN ISO 12543-4, and the ASTM weathering and appearance methods often discussed with ANSI Z97.1. Salt-spray exposure under ASTM B117 or ISO 9227, and airborne sound insulation under DIN EN ISO 10140-2, belong to the same conversation. Sound figures around 37 dB for a 4 mm + 4 mm laminate are an order of magnitude, not a prediction for every makeup.

Those methods are the evaluations commonly applied to laminated safety glass with this class of interlayer. They are not a claim that CNCGLASS holds a named approval or listing for the milky white grade. Trial laminates should be checked for adhesion, glass hold, uniformity of the milky tone, and the absence of flow or moisture marks, which can be more visible in a light-scattering film than in a clear one.

The remarks here rest on our experience with EVA laminating films and may be refined as the product develops. The user must verify the film in the intended process. A planned use is binding on us only when we have confirmed it in writing at the time of the contract. Please contact cnc@cncglass.com for pricing.

Contact Us

Brand: CNCGLASS

Company: CNC Ucolin Interlayer Technology Co., Ltd.
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