Sandblasting White EVA Film 0.38 mm for Laminated Safety Glass - Technical Performance Summary

This technical note summarises in-house quality-control measurements for Sandblasting White EVA film, a 0.38 mm ethylene-vinyl acetate (EVA) interlayer for laminated safety glass. All values are reported as measured on the film described, to support application engineering and lamination process setup by glass processors.

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1. Product Description

Sandblasting White EVA film is an ethylene-vinyl acetate (EVA) interlayer for laminated safety glass, nominal thickness 0.38 mm, with a matte embossed (frosted) surface finish. The product is intended for outdoor laminated-glass applications.

2. Appearance and Surface Quality

Parameter	Result
Nominal thickness	0.38 mm
Surface finish	Matte embossed (frosted)
Wrinkles	Good
Contamination (particles 0.5 mm or smaller, per 10 m²)	Max. 1
Bubbles (0.5 mm or smaller, per 10 m²)	Good

3. Optical Performance

Optical property	1 layer	2 layers	3 layers
Visible-light transmittance (%)	4.50	2.00	1.50
Haze (%)	97.34	98.10	98.13
UV rejection, 280-380 nm (%)	99.03	99.44	99.60

Ultraviolet resistance assessment: OK.

The matte embossed surface scatters incident light, so the direct visible-light transmittance of the un-laminated film reads low while haze reads correspondingly high; the embossing is absorbed during lamination, restoring visual clarity in the finished laminate. Ultraviolet rejection across 280-380 nm exceeds 99 % at every layer count.

4. Mechanical and Physical Properties

Property	Value
Young's modulus	9.7 MPa
Tensile strength	14.8 MPa
Elongation at break	601.2 %
Water absorption	< 0.1 %
Bond strength to glass	108 N/cm
Bond strength to PET	> 40 N/cm

5. Crosslinking and Recommended Lamination Process

Gel content (crosslink degree): 86.7 %. Method: the specimen is boiled in xylene at 140 ± 3 °C under reflux for 5 h, drained, dried in a vacuum oven at 140 ± 3 °C for 3 h, then cooled to ambient temperature before weighing.

Lamination step	Condition
Step 1	80 °C, 20 min
Step 2	120 °C, 60 min

6. Storage, Shelf Life and Service Environment

Store at ambient temperature, protected from sunlight, in sealed packaging and free of heavy stacking pressure. Shelf life is eight months in sealed storage. The product is suitable for outdoor service environments.

7. Applicable Standards

Quality inspection of this product family is performed against EN 14449:2005 and EN ISO 12543-4:2011 for laminated-glass performance.

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