national technical approval (AbZ) by

Deutsches Institut für Bautechnik DIBt

Technical data sheet

evguard® – The EVA laminating film for safety, security & decorative glass

Stability

Ball drop test[1]	DIN 52338	44.2
Pendulum test[1]	DIN EN 12600	44.1
Resistance against heat, humidity and UV radiation[1]	DIN EN ISO 12543-4	
Noise protection[1]	DIN EN ISO 10140-2	
DIBt – Deutsches Institut für Bautechnik	AbZ (national technical approval)	*approved*
American National Standards Institute[1]	ANSI Z97.1	*approved*

Processing

Minimum temperature	105 °C (220 F)
Maximum temperature	160 °C (320 F)
Production process	pre-lam nip roll / autoclave (PVB lines)
	vacuum lamination

Film color

transparent

milky-white

[1] not certified for **ev**guard® milky-white

evguard® is an elastic interlayer film for the manufacturing of laminated glass. It is based on ethylene vinyl acetate copolymer (EVA). During lamination **ev**guard® cross-links into a three-dimensional structure, resulting in a backbone for laminated glass.

Properties		**Test method**	**non cross-linked**	**cross-linked**
Density		ISO 1183	0.95 – 0.97 g/cm³	0.95 – 0.97 g/cm³
Tensile strength				
	MD	ISO 527-3	> 5 N/mm²	> 20 N/mm²
	CD		> 5 N/mm²	> 20 N/mm²
Elongation at break		ISO 527-3		
	MD		> 700 %	> 400 %
	CD		> 700 %	> 400 %
Hardness		DIN 53505		> 65 Shore A
Thermal expansion coefficient		DIN 52328		1 – 10^{-4} K^{-1}
Refractive index				1.48
Light transmission (390 – 1,100 nm)				> 85 %
UV cut-off				365 nm

Film thickness	DIN 53 370	≥ 0.200 mm (0.008 ins)	customized dimensions possible
		≤ 1.140 mm (0.045 ins)	
Film width		up to 2,250 mm (88.58 ins)	

Storage recommendation	
Temperature	< 30 °C (85 F)
Humidity	ca. 50 %
Shelf life	use by 12 months after date of production

Opened rolls have to be protected against direct sunlight and dust.

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