

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)	<i>approved</i>
American National Standards Institute ¹	ANSI Z97.1	<i>approved</i>

● **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 evguard® 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 **evguard®** 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/cm ³	0.95 – 0.97 g/cm ³
Tensile strength	MD ISO 527-3	> 5 N/mm ²	> 20 N/mm ²
	CD	> 5 N/mm ²	> 20 N/mm ²
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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Disclaimer

Our information about our products and processes is based on extensive research and our considerable experience in the field of applied engineering. We provide this information, which to the best of our knowledge is correct, orally and in writing. In doing so, we do not assume any liability other than the liability agreed upon in the respective individual contract, and we reserve the right to make technical modifications in the course of our product development. However, this shall not release user from its obligation to verify the suitability of our products and processes for its own use. Purchaser's specifications of intended use shall only be binding, if we, at the time of contract conclusion, have confirmed in writing that the delivered goods are suitable for the use intended by Purchaser. This shall also apply to the protection of third party industrial property rights and to applications and processes.