

Technical data sheet

evguard® MPE

Special high performance multi-layer polyester insert for heavy impact and printed laminated safety glass applications

DESIGNED,
DEVELOPED
AND MADE
IN GERMANY

↓ ● Stability

Ball drop test	DIN EN 356	44.2.MPE(200) P2A 44.4.MPE(600) P4A
	DIN 52338 (6 m height)	44.2.MPE(200) <i>approved</i>
Miami Dade Testing of large missile impacts and positive/negative cyclic loads	TAS 201-94 (Large Missile)	55.4.MPE(800) <i>approved</i>
	TAS 203-94 @ ±120 psf (Cycling)	55.4.MPE(800) <i>approved</i>
American National Standard Institute	ANSI Z97.1 incl. ASTM G 155-05a, ASTM D 1003-11, ASTM E 313-10, ASTM E 308-12	<i>approved</i>
Salt spray test (3,000 hours)	ASTM B117 / ISO 9227	44.2.MPE(200) <i>approved</i>
Sound reduction	DIN EN ISO 10140-2	44.2.MPE(200) 37 db

🔧 Processing

Thickness	0.200 ... 0.300 mm	0.301 ... 0.600 mm
Minimum temperature	105 °C (220 F)	105 °C (220 F)
Maximum temperature	130 °C (284 F)	140 °C (264 F)
Production process	Vacuum lamination	Vacuum lamination

🔘 Dimensions & Packaging*

Thickness	min. 0.200 mm, max. 0.600 mm	Customized dimensions and packaging on individual request
Width	max. 1,250 mm	
Sheet length	max. 1,400 mm	
Core	76 mm cardboard core	
Packaging	on a pallet	

* evguard® MPE is available in reels and sheets

evguard® is a thermosetting, ethylene-vinyl acetate based, interlayer for manufacture of laminated safety, security & design glass. The stability and strength of the laminate can be significantly increased in combination with our MPE.



Properties

Composition	PET copolyester, special formulation
Glass transition point	~ 110 °C
Color	colorless transparent glossy
Density	~ 1.2 g/cm ³
Shrinkage	≤ 5 % (130 °C / 140 °C @ 10 minutes, depending on thickness)

* values depend on appropriate lamination



Storage recommendation

Temperature	< 30 °C (85 F)
Humidity	< 80 %
Shelf life	use by 12 months after date of delivery Opened rolls and stacks 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.