



DS AMH N°003 / generated 29/06/2015

Product data sheet:

# ALBARINO<sup>®</sup> MID HAZE

## Product:

Extra-white patterned glass with and without anti-reflective coating tempered according to EN 12150-1 and ASTM C 1048.

## Optical Properties:

	AS standard [%]	AS 1AR [%]	AS 2AR [%]	Tolerance [%]
<b>LT Hemispherical (WUR method)</b>	<b>82.5</b>	<b>85.0</b>	<b>87.5</b>	+/- 1.5
<b>LT normal (NEN 2675)</b>	<b>92.2</b>	<b>94.2</b>	<b>95.7</b>	+/- 1.5
<b>Haze (WUR method)</b>	<b>50</b>			+10 / -15

Remark: values based on measurements made on samples 500 x 500 x 4mm

## Glass Properties and physical characteristics:

<b>Dimensions / Weight</b>	Thickness	4mm ± 0.2 mm / 5mm ± 0.3mm	
	Specific weight	2500 kg /m <sup>3</sup> of glass mass	
	Tolerance of length and width	+/- 1mm	
	Rectangularity	Difference between diagonals: 3 mm	
<b>Mechanical properties</b>	Edges	round (C) grinded edges	
	Bending strength	> 90 N /mm <sup>2</sup> (ESG)	
	General drilling requirements	According to EN 12150	
	Drill hole tolerance	+/- 1mm	
	Tolerance position drill hole to glass edge	+/- 2mm	
<b>Surface / warp</b>	Surface condition	matt / prismatic	
	Local warp	Maximum 0.5 mm / 300mm (measured on an ideal plate)	
	Global warp	Maximum of 4 mm / m	
<b>Defects, Quality</b> Criteria from prEN572-5/94: Distance of observation 1,5m perpendicular to glass sheet parallel to a grey background at a distance of 3m at diffuse day light	<b>Inclusions</b>	< 0,5 mm	unlimited
		0,5 - 1,5 mm	1
		> 1,5 mm	2
	<b>Spherical bubbles</b>	< 2mm	unlimited
		2-3 mm	max. 3
		< 10 mm	unlimited
	<b>Longitudinal bubbles</b> (length in mm at max.1 mm width)	10 -15 mm	max. 4
		15 - 20 mm	1
		> 20 mm	0
	<b>Shells (l x w x d)</b>	10 x 1,5 x 1mm	



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**SG PV-AR coating characteristics:**

<p><b>Durability Test</b> (Typical data)</p>	<p><b>EN 61215</b>  Damp Heat (2000h)  Thermal Cycling (1200h)  Humidity Freeze (480h)  UV Arizona (1600h)</p> <p><b>Automotive Glass Test</b>  UV Florida (1600h)  Salt Spray test (1000h)  Acid test (240h)</p>	<p><b>remaining performance, from initial TE:</b>  99,8% ± 0,4% *  99,9% ± 0,4% *  99,9% ± 0,4% *  99,8% ± 0,4% *</p> <p>99,8% ± 0,4% *  99,8% ± 0,4% *  99,8% ± 0,4% *</p> <p>[* incl. 0.2% measurement inaccuracy]</p>
<p><b>Mechanical properties</b> (Typical data)</p>	<p><b>EN 1096</b>  Abrasion Test ( after 500 cycles)  - remaining performance</p>	<p><b>remaining performance, from initial TE:</b>  99,1% ± 0,4% *</p> <p>[* incl. 0.2% measurement inaccuracy]</p>
	<p><b>EN 15184</b>  Pencil Hardness Test</p>	<p>5H / 6H</p>

**Packaging conditions:**

<p><b>Packaging</b></p>	<p><b>End-caps</b> with top and bottom timber <b>(wood)</b></p>
<p><b>Interlayer</b></p>	<p>Powder*<sup>1</sup></p>

\*<sup>1</sup>: Oxy Dry Anti Offset powder Type 1045, chemical family: carbohydrate, not hazardous

- The quantity per packaging unit is variable
- We advise for Oversea transport an encapsulation with plastic- or Aluminium foil and desiccant

<p><b>CE – marking</b></p>	<p>A safety glass label will be marked on the smooth surface of the glass, design of marking is variable basing on customer requirement, incomplete printed lines are allowed.</p>
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