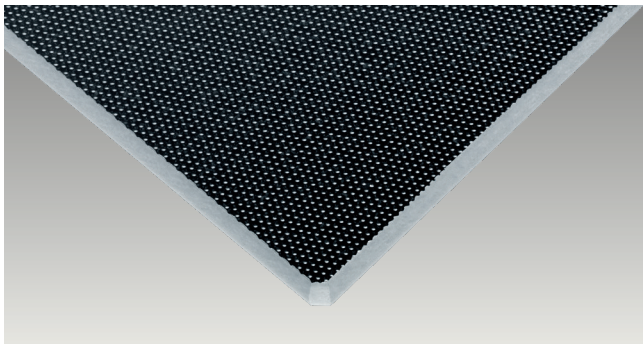


## GMB CONE



Our solar glass with a unique pattern.

The special feature of our GMB CONE solar glass is its geometric pyramidal pattern. Its performance and annual solar energy output are slightly lower compared to the other types of GMB glass, but GMB CONE reliably reduces both dazzle effects and the view into the collector's interior.

OPTICAL PROPERTIES (transmission $\tau$ )	2.5 mm	3.2 mm	4.0 mm	5.0 mm
CONE (Poly-C)	91,9%	91,9%	91,8%	91,7%
CONE (AM 1.5)	91,7%	91,7%	91,6%	91,5%
CONE TT (Poly-C)	94,7%	94,7%	94,6%	94,5%
CONE TT (AM 1.5)	94,2%	94,2%	94,1%	94,0%
CONE TT plus (Poly-C)	94,8%	94,8%	94,7%	94,6%
CONE TT plus (AM 1.5)	94,3%	94,3%	94,2%	94,1%
CONE Anti Soiling (Poly-C)	94,6%	94,6%	94,5%	94,4%
CONE Anti Soiling (AM 1.5)	94,1%	94,1%	94,0%	93,9%

MECHANICAL PROPERTIES (tempered glass)	
Moh's hardness:	~6
Poisson's ratio*	0.24
Density	2.50 g/cm <sup>3</sup>
(Young's) modulus of elasticity*	73 Gpa
Bending tensile strength [2.0mm: >90Mpa]	> 120 Mpa
Compression strength	> 700 Mpa
Shear modulus*	30 Gpa
Bulk modulus*	48 Gpa

THERMAL PROPERTIES (tempered glass)	
Expansion coefficient $\alpha^*t$	9.20* 10 <sup>-6</sup> K <sup>-1</sup> (Linear in the range of 100°C - 300°C)
Specific heat*	0.83kJ/kgK (at 0° - 100°C)
Thermal conductivity* (at 20°C)	1.07 W/m <sup>2</sup> K
Softening point (Littleton)	723°C
Annealing point	542°C
Strain point	504°C

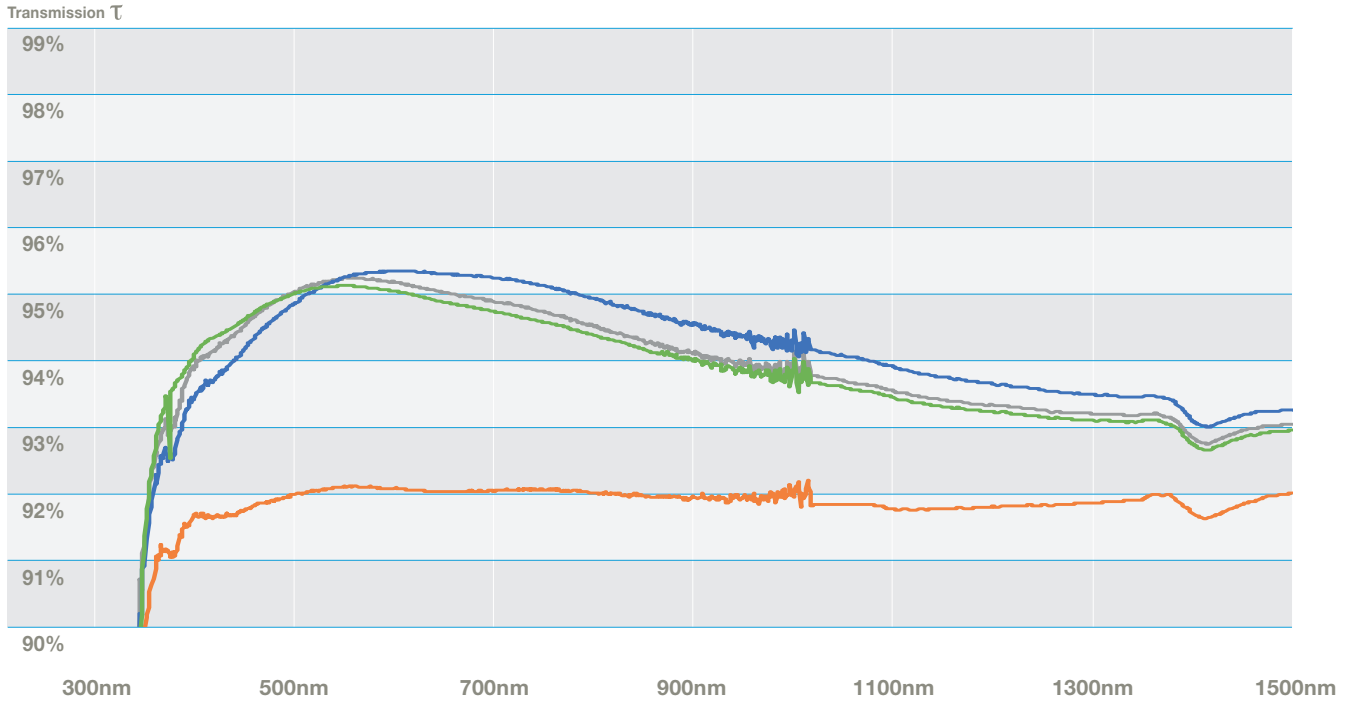
CHEMICAL PROPERTIES	
Approximate chemical composition:	
silicon dioxide	73%
sodium oxide	13.9%
calcium oxide	8.2%
magnesium oxide	4.7%
trace elements	0.2%
thereof iron oxid	<0.014%
Hydrolytic class (DIN 52296)	HP 3
Acid resistance (DIN 12116)	S 2
Base resistance (DIN ISO 695)	A 2

WEIGHT				
Approximate weight per square meter				
	2.5 mm	3.2 mm	4.0 mm	5.0 mm
	6,3 kg	8 kg	10 kg	12.5 kg

\* calculated data

# GMB CONE

## Performance



Products (3.2 mm)	CONE	CONE TT	CONE TT plus	CONE Anti Soiling
AM1,5	91,7%	94,2%	94,3%	94,1%
PolyC	91,9%	94,7%	94,8%	94,6%

The mentioned data is for information purpose only and do not constitute a contractual legal relationship or a basis for a claim.

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