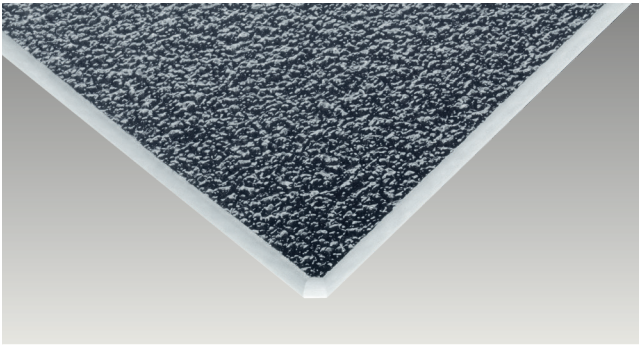


GMB DEFLECT / DEFLECT PRO



Our special glass
for minimal
reflection.

GMB DEFLECT has been specifically designed for locations where reflected light needs to be reduced to a minimum – for instance, near airports. In addition, our GMB Deflect has a very high solar transmittance and is thus one of the high-performance types of glass for photovoltaic use.

OPTICAL PROPERTIES (transmission τ)	2.0 mm	2.5 mm	3.2 mm	4.0 mm	5.0 mm
DEFLECT (POLY-C)	94,9%	94,8%	94,8%	94,7%	94,6%
DEFLECT (AM 1.5)	94,6%	94,5%	94,4%	94,4%	94,3%
Reflected luminance GMB Solar Glass DEFLECT	< 20.000 cd/m ²				
Reflected luminance GMB Solar Glass DEFLECT PRO	< 10.000 cd/m ²				

MECHANICAL PROPERTIES (tempered glass)	
Moh's hardness:	~6
Poisson's ratio*	0.24
Density	2.50 g/cm ³
(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

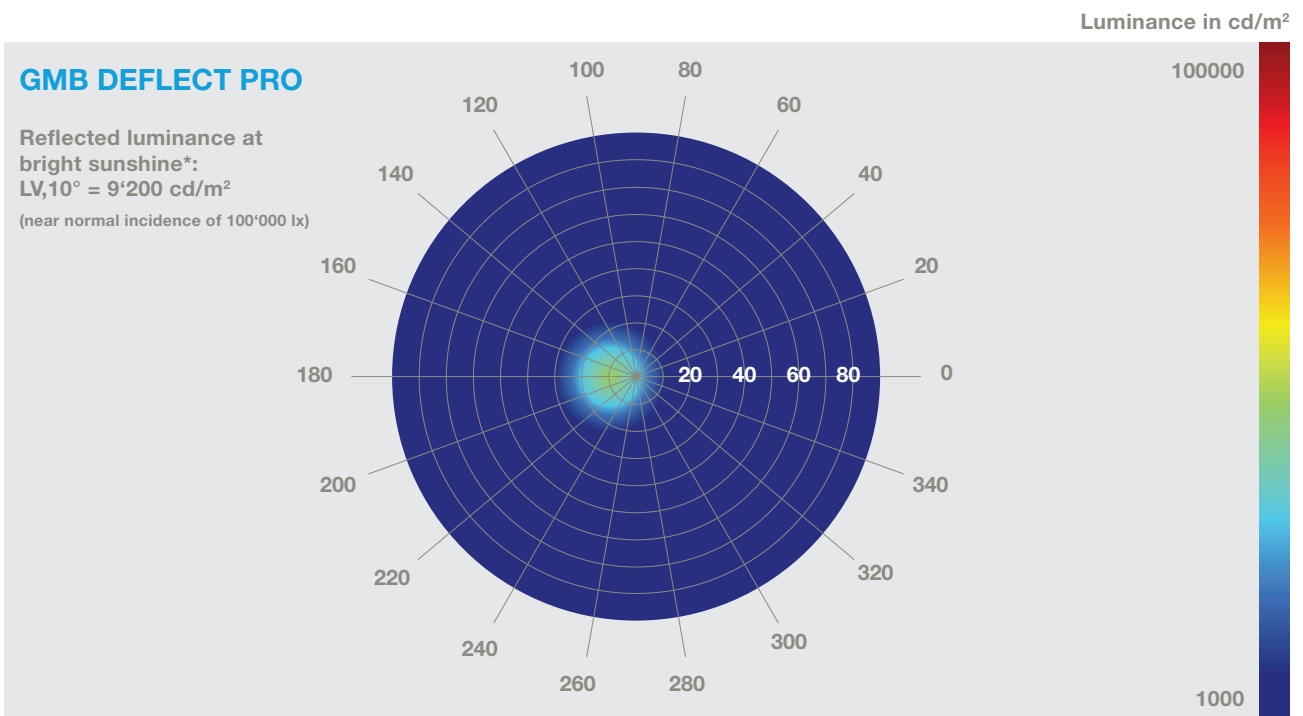
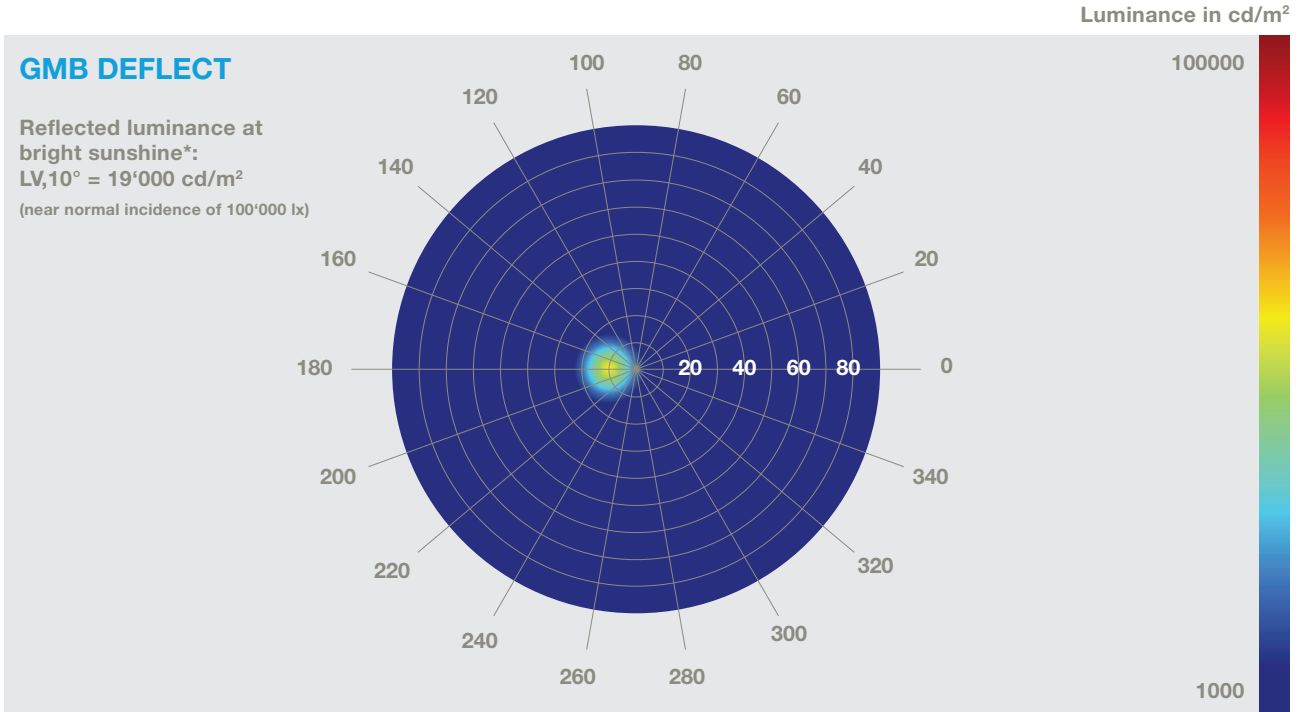
THERMAL PROPERTIES (tempered glass)	
Expansion coefficient α^*t	9.20* 10 ⁻⁶ K ⁻¹ (Linear in the range of 100°C - 300°C)
Specific heat*	0.83kj/kgK (at 0° - 100°C)
Thermal conductivity* (at 20°C)	1.07 W/m ² K
Softening point (Littleton)	723°C
Annealing point	542°C
Strain point	504°C

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					
2.0 mm	2.5 mm	3.2 mm	4.0 mm	5.0 mm	
5 kg	6,3 kg	8 kg	10 kg	12.5 kg	

* calculated data

GMB DEFLECT / DEFLECT PRO



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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