CORNING SAS - Ophthalmic
PO Box Nr 90094 - Bagneaux sur Loing - F 77992 Nemours cédex - FRANCE

Glass designation : **GX 15** Code **82515**

Color : **Gray**
Filter category : **Dark**
Application : **100 % UV absorbing glass suited for general or special purpose sunglass lenses. Pass cited standards for traffic signal recognition at 1.8 mm thickness**

PHYSICAL PROPERTIES

Density :		**2.56**	**g/cm3**
Linear Exp. Coef. :		**91**	**10^{-7} / °C**
Viscosity :	**Soft. Pt**	**705**	**°C**
	Ann. Pt	**540**	**°C**
	Strain Pt	**500**	**°C**

REFRACTIVE INDEX

Line		λ (nm)	Value
F'	Cadmium	480.0	
F	Hydrogen	486.1	
e	Mercury	546.1	
d	Helium	587.6	1.52500
C'	Cadmium	643.8	
C	Hydrogen	656.3	

Abbe Number νe
νd

TRANSMISSION PROPERTIES (1,8 mm)

VISIBLE	**380 - 780 nm**
Luminous transmission factor	**14%**
Transmission category ISO 8980-3	**3**

ULTRAVIOLET

UV - B tλ(max) 280 - 315 nm	**< 0.1 %**
t(avg) 280 - 315 nm	**< 0.1 %**
Solar UV-B transmission factor	**< 0.1 %**
UV - A tλ(max) 315 - 350 nm	**< 0.1 %**
t(moy) 315 - 380 nm	**< 0.5 %**
Solar UV-A transmission factor	**< 0.5 %**

BLUE LIGHT 380 - 500 nm

Blue light transmission factor	**11%**

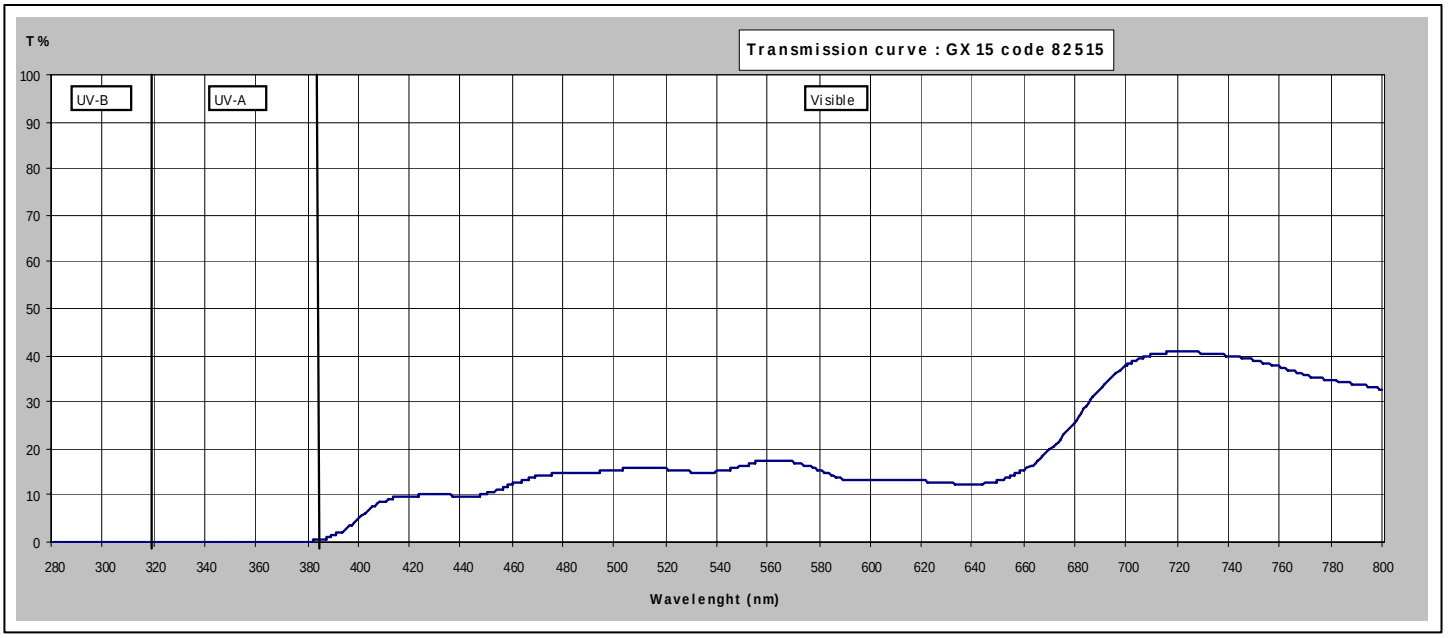
TRAFFIC SIGNAL RECOGNITION

ISO 14889	***Pass***
ANSI Z80-3	***Pass***
AS 1067.1	***Pass***

COATING & TEMPERING

(See also notes below)

Vacuum coating	**YES**
Chemical tempering	**YES**
Air tempering	**Not recommended**



Non-toleranced numerical values are typical values

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Chemtempering : Recommended bath and cycle (no preheating nor postcooling) :

Bath :	Potassium Nitrate	**99.5 %**	(Sodium nitrate 0,5% max)	Time :	**16 Hr**
	Silicic Acid	**0.5 %**		θ °C :	**450 °C**

Air tempering :
Not recommended. Minimum lens thickness for air tempered lenses is 2 mm.

Coatings :
Vacuum coatings for antireflexion or mirror are possible.

Compatible Bariums :
This glass can not be used to manufacture fused multifocal lenses.
There is no compatible bariums to be fused with this glass

Properties according to ISO 14889

ISO 14889 Chapter 4.3.1 ***Physiological compatibility***

The above glass products are not known to be physiologically incompatible, nor known to create a significant number of allergic reactions, when the lenses made out of these materials are used as intended by the manufacturer

ISO 14889 Chapter 4.3.2 ***Flammability***

The above glass products are not flammable, and when tested as described in chapter 5.1 of ISO 14889, there is no continued combustion after withdrawal of the test rod.