

Glass designation :	GX 15	Code	82515
Color :	Gray		
Filter category :	Dark		
Application :	100 % UV absorbing glass suited for general or special purpose Tinted Glass Pass cited standards for traffic signal recognition at 1.9 mm thickness		

PHYSICAL PROPERTIES

Density :	2.56	g/cm³
Linear Exp. Coef. : (α +20/+300°C)	91	10⁻⁷/°C
Viscosity :	Soft. Pt	705 °C
	Ann. Pt	540 °C
	Strain Pt	500 °C

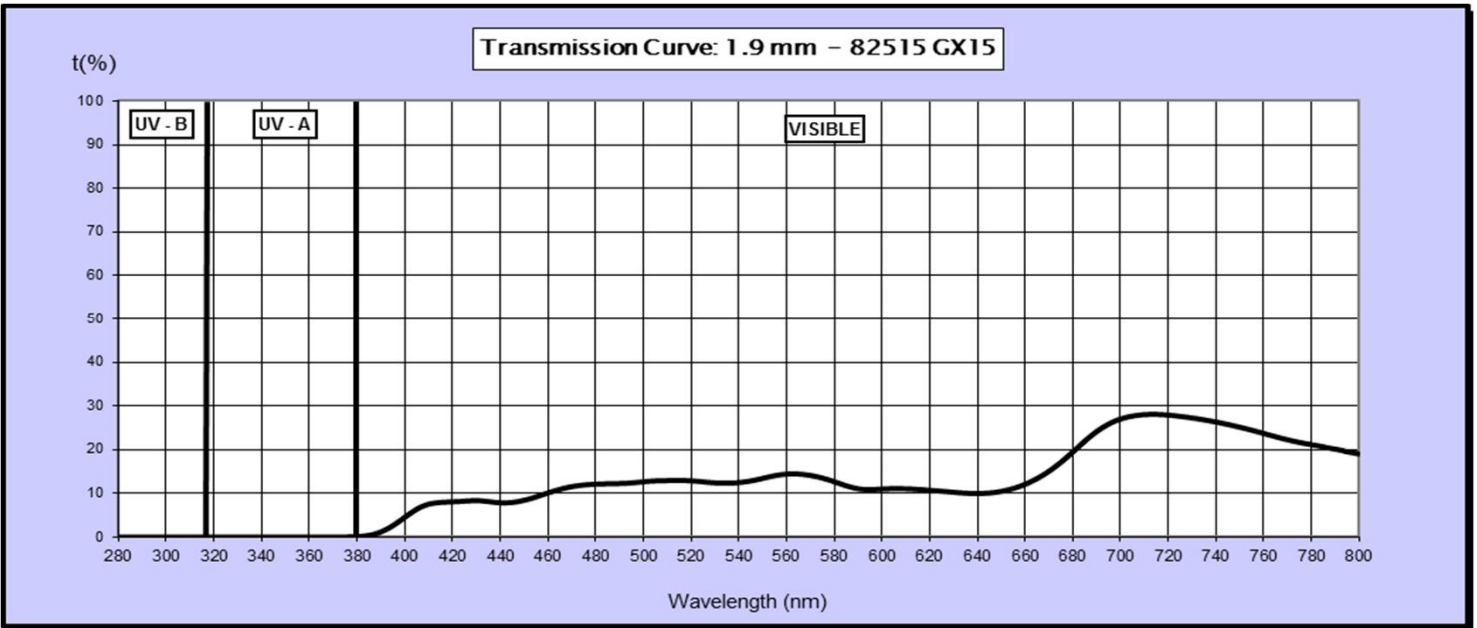
REFRACTIVE INDEX

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		ve	
		vd	

TRANSMISSION PROPERTIES (1,9 mm)

VISIBLE	380 - 780 nm
Luminous transmission factor	12.5%
Transmission category	
ISO 8980-3	3
ULTRAVIOLET	
UV - B $t\lambda$ (max) 280 - 315 nm	< 0.1 %
t(avg) 280 - 315 nm	< 0.1 %
Solar UV-B transmission factor	< 0.1 %
UV - A $t\lambda$ (max) 315 - 350 nm	< 0.1 %
t(avg) 315 - 380 nm	< 0.5 %
Solar UV-A transmission factor	< 0.5 %
BLUE LIGHT 380 - 500 nm	
Blue light transmission factor	10%
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 :		
Bath :	Potassium Nitrate	99.5 %	(Sodium nitrate 0,5% max)
	Silicic Acid	0.5 %	
		Time :	16 Hr
		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.