

Glass designation :

B 50

Code

8021

Color :

Brown

Filter category :

Light

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 : **2.49** g/cm³
Linear Exp. Coef. : **68.1** 10⁻⁷ / °C
Viscosity : Soft. Pt **645** °C
Ann. Pt **493** °C
Strain Pt **456** °C

REFRACTIVE INDEX

Line		λ (nm)	Value
F'	Cadmium	480.0	1.53040
F	Hydrogen	486.1	1.52992
e	Mercury	546.1	1.52600
d	Helium	587.6	1.52394
C'	Cadmium	643.8	1.52171
C	Hydrogen	656.3	1.52130
Abbe Number		ve	60.53
		vd	60.78

TRANSMISSION PROPERTIES (1,9 mm)

VISIBLE 380 - 780 nm

Luminous transmission factor **53.6%**
Transmission category
EN 1836 **1**

ULTRAVIOLET

UV - B tλ(max) 280 - 315 nm **< 0.10**
t(avg) 280 - 315 nm **< 0.10**
Solar UV-B transmission factor **< 0.10**

UV - A tλ(max) 315 - 350 nm **< 0.10**
t(moy) 315 - 380 nm **< 0.10**
Solar UV-A transmission factor **< 0.10**

BLUE LIGHT 380 - 500 nm
Blue light transmission factor **37.9%**

TRAFFIC SIGNAL RECOGNITION

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

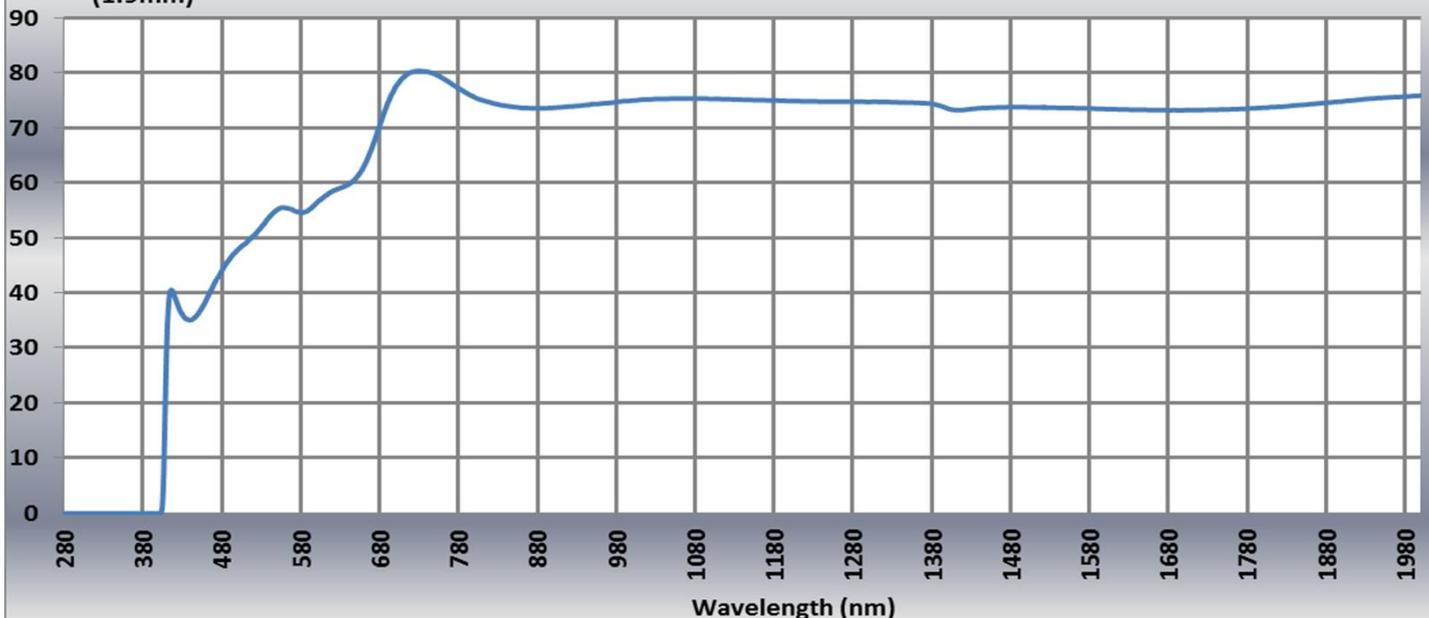
COATING & TEMPERING

(See also notes below)

Vacuum coating **YES**
Chemical tempering **YES**
Air tempering **NO**

Transmission Curve
(1.9mm)

Transmission Curve: B50 Code 8021



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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 :	410 °C

Air tempering :

This glass shall not be air tempered

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.