

Glass designation :

1.9 / 31 Blanc

Code

80230

Color :

White

Glass type :

Very high Index glass

Application :

Ophthalmic lenses : single vision, Progressive addition

PHYSICAL PROPERTIES

Density : 3.99 g/cm³
 Linear Exp. Coef. : 75 10⁻⁷ 10⁻⁷ / °C
 Viscosity : Soft. Pt 750 °C
 Ann. Pt 650 °C
 Strain Pt 620 °C

REFRACTIVE INDEX

Line		λ (nm)	Value
F'	Cadmium	480.0	1.90742
F	Hydrogen	486.1	1.90543
e	Mercury	546.1	1.89178
d	Helium	587.6	1.88500
C'	Cadmium	643.8	1.87785
C	Hydrogen	656.3	1.87654
Abbe Number		ve	30.4
		vd	30.6

TRANSMISSION PROPERTIES (2 mm)

VISIBLE 380 - 780 nm

Luminous transmission factor 82.6%
 Transmission category ISO 8980-3 0

ULTRAVIOLET

UV - B t(moy) 280 - 315 nm < 0.1 %
 Solar UV-B transmission factor < 0.1 %

UV - A t(moy) 315 - 380 nm 25%
 Solar UV-A transmission factor 17%

BLUE LIGHT 380 - 500 nm
 Blue light transmission factor 81%

TRAFFIC SIGNAL RECOGNITION

ISO 14889 Pass
 ANSI Z80-3 Pass
 AS 1067.1 Pass

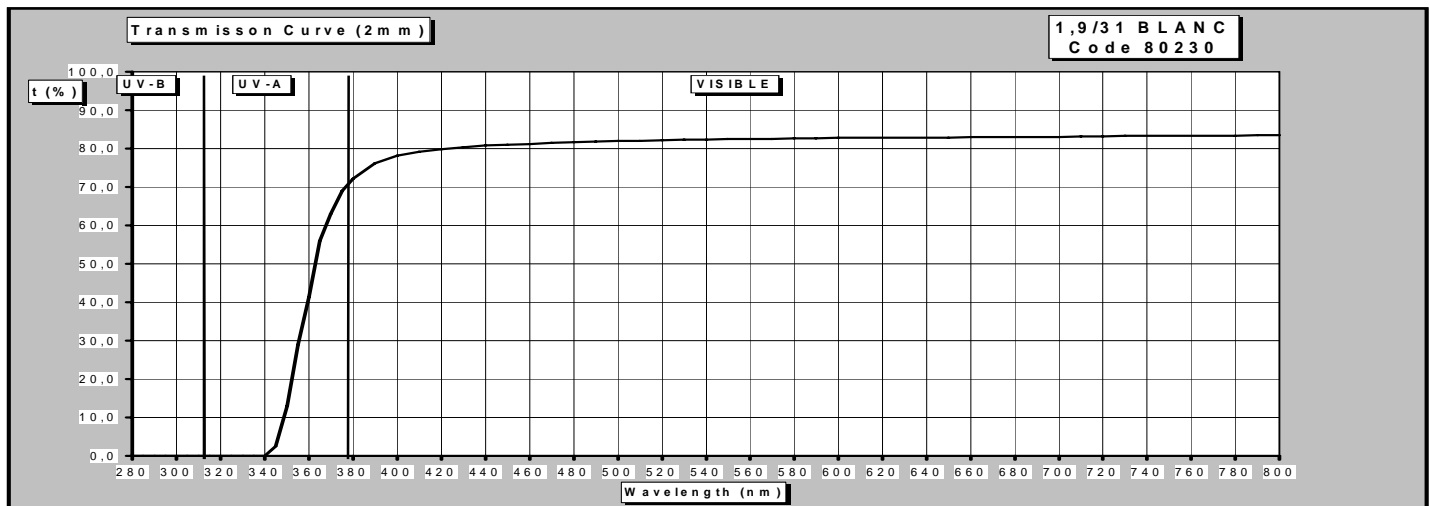
COATING & TEMPERING

(See also notes below)

Vacuum coating YES
 Chemical tempering NO
 Air tempering YES

CHEMICAL DURABILITY (class)

To water NF ISO 719 HGB1
 To acid DIN 12-116 3
 To alkalis ISO 695 A1



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Chemtempering :

This glass as not been designed for chemical tempering

Air tempering :

A specific air tempering schedule must be used for this glass, at lower temperature than for standard crown glasses. More informations are available from Corning SAS Sales Department.

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.