

Glass designation :

1.6 / 41 BLANC TC

Code

60043

Color :

White

Glass type :

Medium index glass, Chemtemperable

Application :

Ophthalmic lenses : Single vision, progressive addition

PHYSICAL PROPERTIES

Density :	2.63	g/cm ³
Linear Exp. Coef. :	100	10 ⁻⁷ / °C
Viscosity :	Soft. Pt	610 °C
	Ann. Pt	490 °C
	Strain Pt	460 °C

REFRACTIVE INDEX

Line		λ (nm)	Value
F'	Cadmium	480.0	1.61149
F	Hydrogen	486.1	1.61063
e	Mercury	546.1	1.60391
d	Helium	587.6	1.60050
C'	Cadmium	643.8	1.59684
C	Hydrogen	656.3	1.59619
Abbe Number	ve		41.2
	vd		41.5

TRANSMISSION PROPERTIES (2 mm)

VISIBLE 380 - 780 nm

Luminous transmission factor	89.5%
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	42%
Solar UV-A transmission factor	31%

BLUE LIGHT 380 - 500 nm	
Blue light transmission factor	89.5%

TRAFFIC SIGNAL RECOGNITION

ISO 14889	Pass
ANSI Z80-3	Pass
AS 1067.1	Pass

COATING & TEMPERING

(See also notes below)

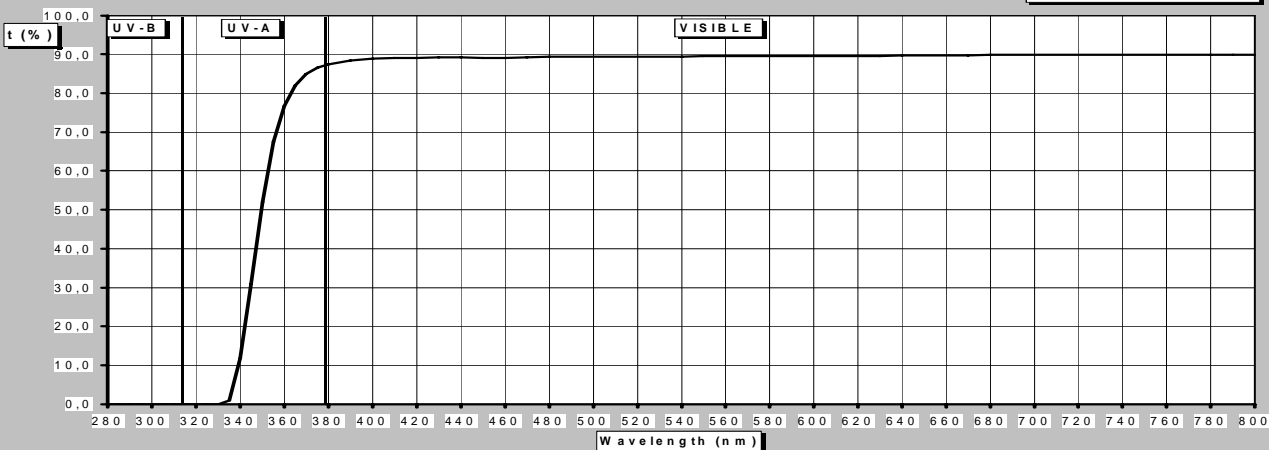
Vacuum coating	YES
Chemical tempering	YES
Air tempering	YES

CHEMICAL DURABILITY (class)

To water	NF ISO 719	HGB3
To acid	DIN 12-116	3
To alkalis	ISO 695	A3

Transmission Curve (2 mm)

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Chemtempering :

Bath :	Potassium Nitrate	59.5%
	Sodium Nitrate	40%
	Silicic Acid	0.5%

Recommended bath and cycle :

Cycle	Time : 16 hr
	400 °C

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 has not been designed for fused multifocal production.

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.