

Glass designation :

1.7 / 42 BLANC Code **70045**

Color : **White**
 Glass type : **High index glass, low dispersion**
 Application : **Ophthalmic lenses : Single vision, progressive addition**

PHYSICAL PROPERTIES

Density : **3.21 g/cm³**
 Linear Exp. Coef. : **85 10⁻⁷ / °C**
 Viscosity : **Soft. Pt 640 °C**
 Ann. Pt 535 °C
 Strain Pt 510 °C

REFRACTIVE INDEX

| Line | | λ (nm) | Value |
|-------------|----------|--------|---------|
| F' | Cadmium | 480.0 | 1.71384 |
| F | Hydrogen | 486.1 | 1.71284 |
| e | Mercury | 546.1 | 1.70502 |
| d | Helium | 587.6 | 1.70010 |
| C' | Cadmium | 643.8 | 1.69681 |
| C | Hydrogen | 656.3 | 1.69600 |
| Abbe Number | | ve | 41.4 |
| | | vd | 41.6 |

TRANSMISSION PROPERTIES (2 mm)

VISIBLE 380 - 780 nm

Luminous transmission factor **87.7%**
 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 **50.5%**
 Solar UV-A transmission factor **40%**

BLUE LIGHT 380 - 500 nm
 Blue light transmission factor **87.5%**

TRAFFIC SIGNAL RECOGNITION

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

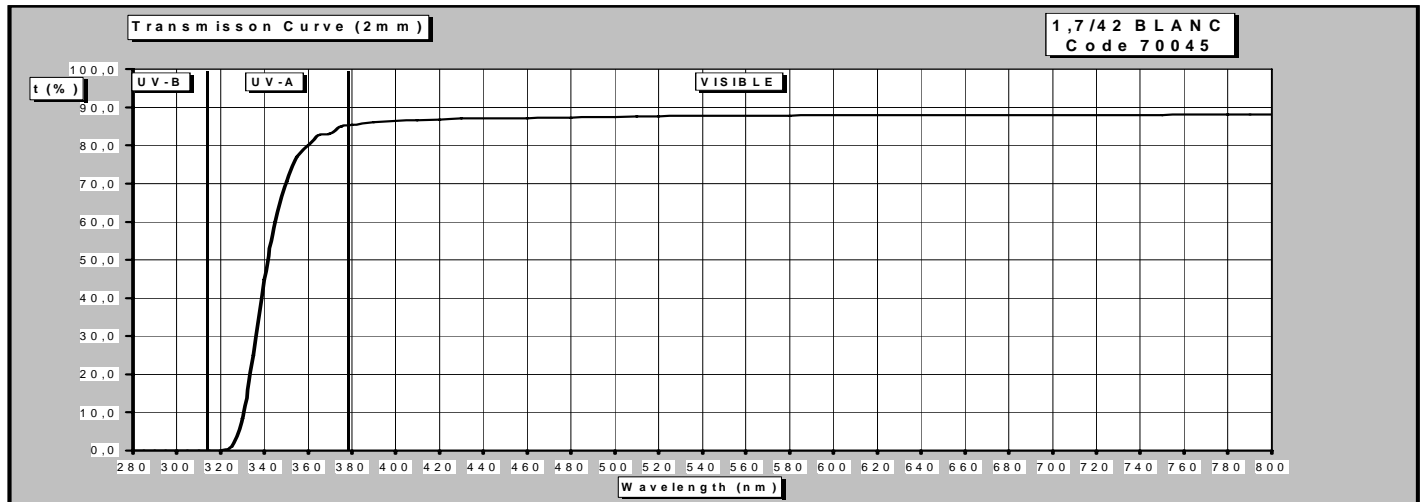
COATING & TEMPERING

(See also notes below)

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

CHEMICAL DURABILITY (class)

To water **NF ISO 719 HGB3**
 To acid **DIN 12-116 3**
 To alkalis **ISO 695 A1**



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Ophthalmic lenses : Single vision, progressive addition

Chemtempering :

This glass as not been designed for chemical tempering

Air tempering :

A specific air tempering schedule must be used for this glass, at higher 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 lenses production.
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.