FUSIBLE PHOTOGRAY EXTRA™ 8112 Code Glass designation:

Color: Clear to medium gray Glass type: Photochromic crown glass.

Ophtalmic lenses: Fused multifocal, or Progressive addition. (heat forming) Application:

PHYSICAL PROPERTIES

Density:		2.41	g/cm3
Linear Exp.	Coef. :	63.5	10 ⁻⁷ / °C
Viscosity:	Soft. Pt	665	°C
-	Ann. Pt	495	°C
	Strain Pt	465	°C

REFRACTIVE INDEX

Line		λ (nm)	Value
F'	Cadmium	480.0	1.52989
F	Hydrogen	486.1	1.52938
е	Mercury	546.1	1.52518
d	Helium	587.6	1.52300
C'	Cadmium	643.8	1.52063
С	Hydrogen	656.3	1.52021
Abb	e Number	ve	56.7
		νd	57.0

TRANSMISSION PROPERTIES

As delivered, this glass is not photochromic. Photochromic properties are developed during the heat cycle used for fusing or forming.

Corning S.A.S. Optical customer engineering will provide full assistance to achieve consistent transmission properties, equivalent to those of 8111 glass code.

Order acceptance is submitted to technical agreement with Corning S.A.S. Optical customer engineering representative.

For more information on transmission or other material properties, refer to code 8111 product data sheet.

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	A2

Compatible Bariums:

This glass as been specifically designed for fused multifocal lenses production. Special care is exercised for exellent match between the carrier blank, the upper and the lower segments, with close tolerances for refractive index and adjusted seal stress.

The addition segment glasses, compatible with this glass, are shown below:

Refractive index (nd)	1.588	1.617	1.653	1.701	1.750
Glass code Nr	8082	8083	8087	8088	8218

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.