CORNING SAS - Ophtalmic
PO Box Nr 90094 - Bagneaux sur Loing - F 77792 Nemours cedex - FRANCE

Glass designation : **DICHROFIL 25 TC** Code **82520**

Color : **Green**

Filter category : **Medium**

Application : **100 % UV absorbing glass suited for general or special purpose sunglass lenses. Absorbs 98% of the Solar Infrared Radiations.**

PHYSICAL PROPERTIES

Density :		**2.57**	**g/cm3**
Linear Exp. Coef. :		**95**	**10^{-7} / °C**
Viscosity :	**Soft. Pt**	**700**	**°C**
	Ann. Pt	**525**	**°C**
	Strain Pt	**485**	**°C**

REFRACTIVE INDEX

Line		λ (nm)	Value
F'	Cadmium	480.0	
F	Hydrogen	486.1	
e	Mercury	546.1	
d	Helium	587.6	1.52300
C'	Cadmium	643.8	
C	Hydrogen	656.3	

Abbe Number νe

νd

CAUTION:
Lens thicknesses greater than 2,2mm do not allow correct recognition of the red traffic signal and are therefore not suitable for driving.

TRANSMISSION PROPERTIES (1,9 mm)

VISIBLE	**380 - 780 nm**
Luminous transmission factor	**29.0%**
Transmission category ISO 8980-3	**2**
ULTRAVIOLET	
UV - B tλ(max) 280 - 315 nm	**< 0.1 %**
t(avg) 280 - 315 nm	**< 0.1 %**
Solar UV-B transmission factor	**< 0.1 %**
UV - A tλ(max) 315 - 350 nm	**< 0.1 %**
t(moy) 315 - 380 nm	**0.2 %**
Solar UV-A transmission factor	**0.2 %**
BLUE LIGHT 380 - 500 nm	
Blue light transmission factor	**15,6%**
INFRARED 780 - 2000 nm	
Solar Infrared transmission factor	**2,0%**

TRAFFIC SIGNAL RECOGNITION

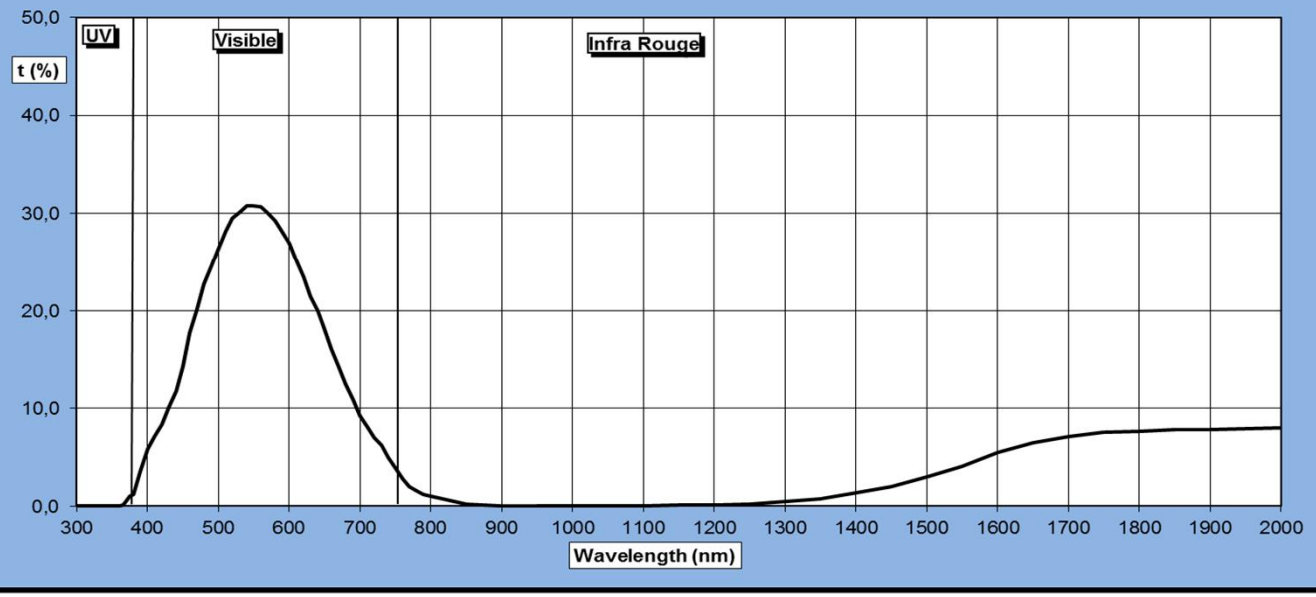
ISO 14889	***Pass***
ANSI Z80-3	***Pass***
AS 1067.1	***Pass***

COATING & TEMPERING

(See also notes below)

Vacuum coating	**YES**
Chemical tempering	**YES**
Air tempering	**YES**

Transmission Curve : DICHROFIL 25 TC - Code 82520



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Application : **100 % UV absorbing glass suited for general or special purpose sunglass lenses**

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 :	**450 °C**

Air tempering :
Air tempering using conventional processes for standard crown glasses. Minimum lens thickness for normal air tempered lenses is 2 mm.

Coatings :
Vacuum coatings for coloring, 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.