

Glass designation :

DICHROFIL 25 TC

Code

82520

Color :

Green

Filter category :

Medium

Application :

100 % UV absorbing glass suited for general or special purpose Tinted Glass
 Absorbs 98% of the Solar Infrared Radiations.

PHYSICAL PROPERTIES

Density :	2.57	g/cm ³
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		ve	
		vd	

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 (2mm)

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

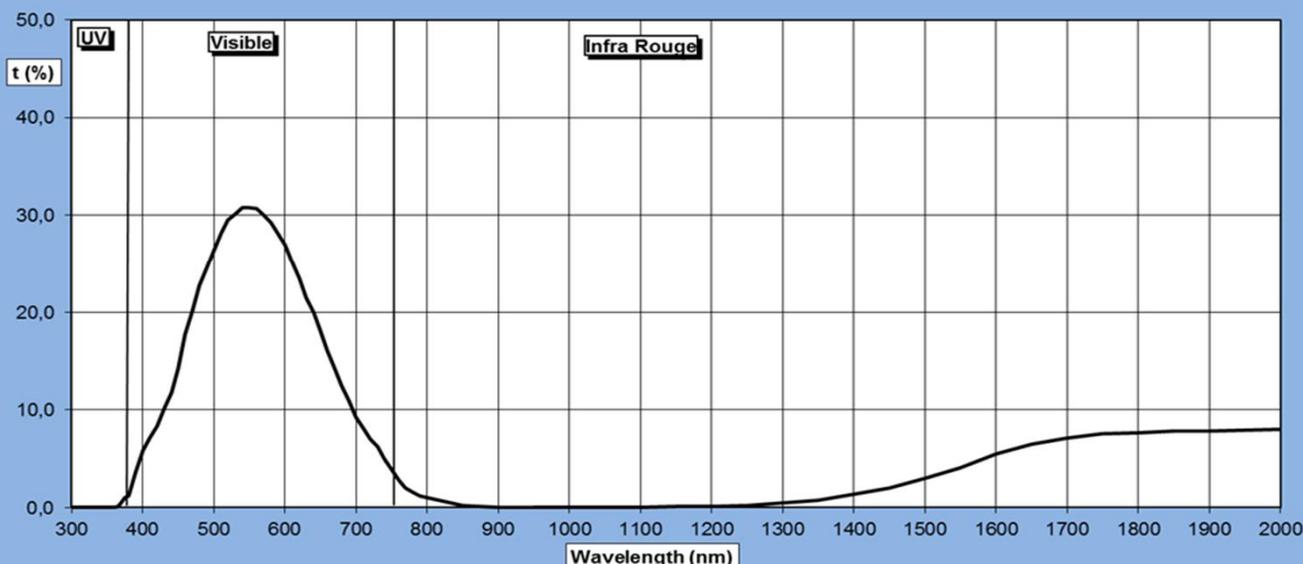
ISO 14889	Pass
ANSI Z80-3	Pass
AS 1067.1	Pass

COATING & TEMPERING

(See also notes below)

Vacuum coating	YES
Chemical tempering	YES
Air tempering	YES

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Chemtempering :

Recommended bath and cycle :

Bath :	Potassium Nitrate	99.5 %	(Sodium nitrate 0,5% max)	Time :	16 Hr
	Silicic Acid	0.5 %		θ °C :	430 °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.