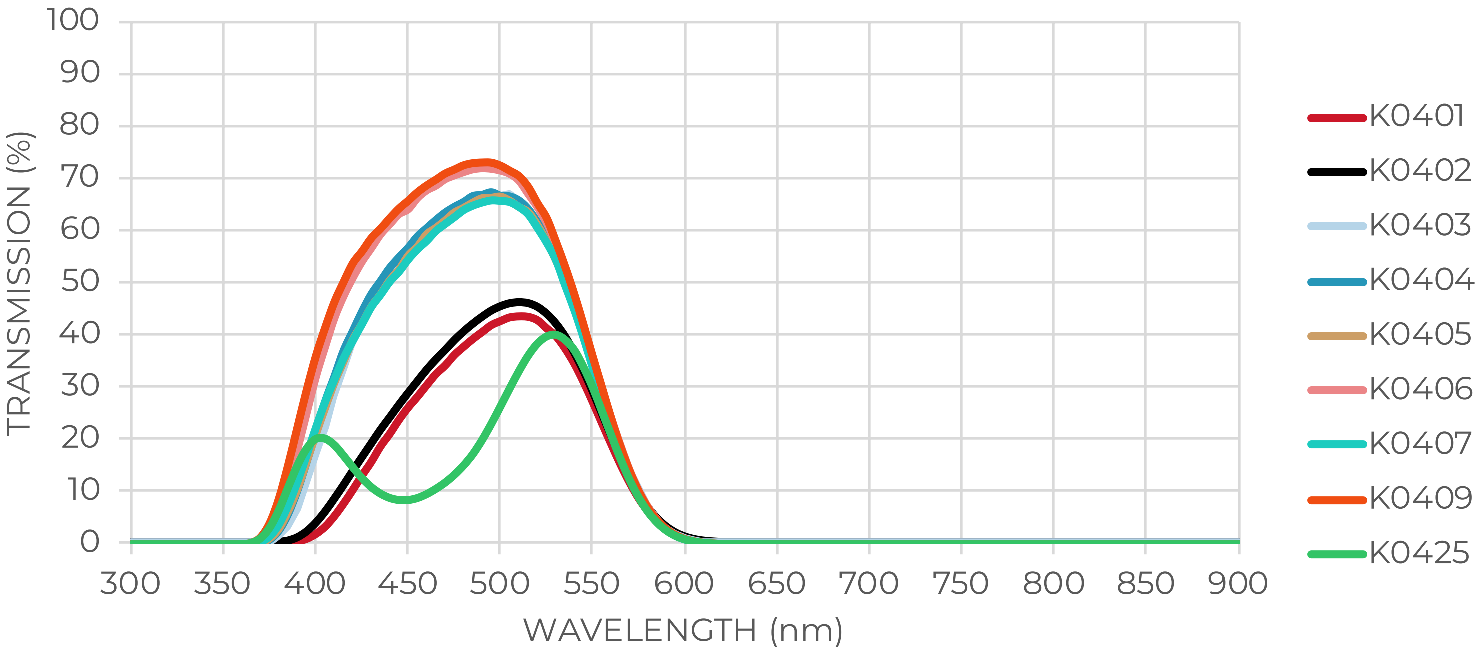
NVIS GREEN A

filter glass data sheets



NVIS GREEN A GLASS COMPOSITIONS

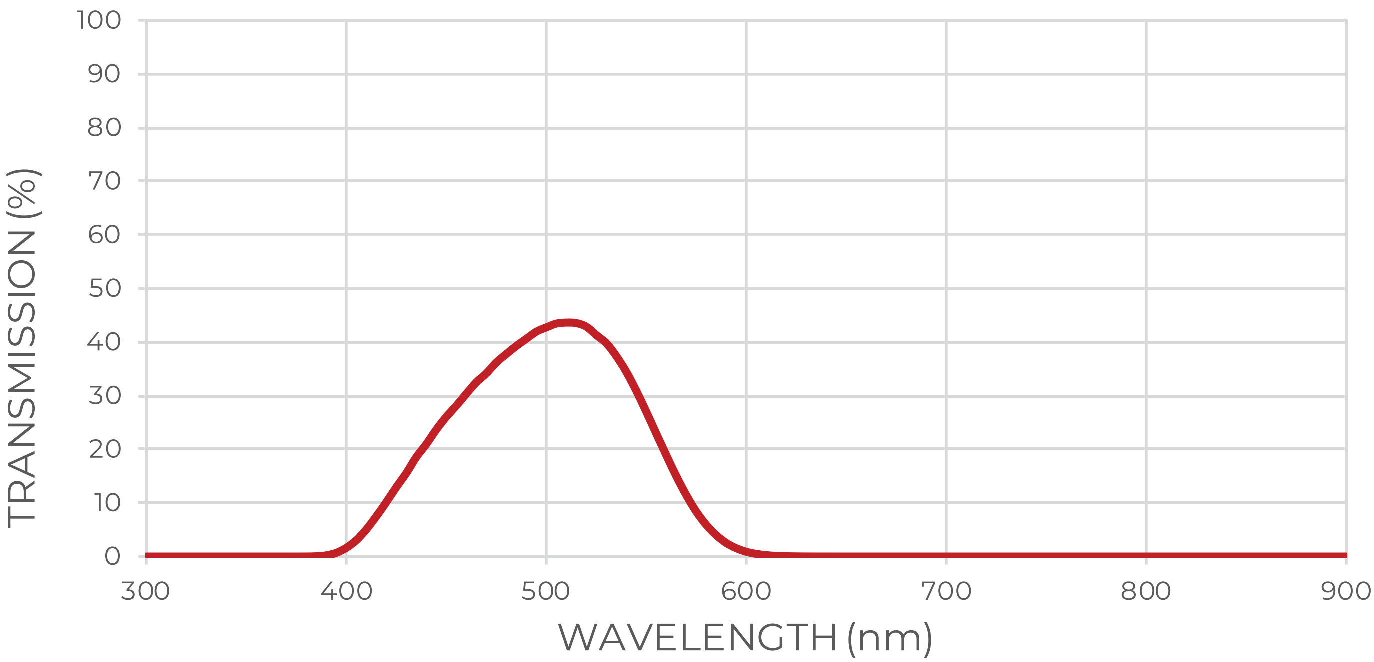
Click glass product number to jump to data sheet.

K0401
K0402
K0403
K0404
K0405
K0406
K0407
K0409
K0425

PLEASE NOTE: The transmission curves in this catalog should be understood as typical curves for reference only. Data listed without tolerances are to be understood as reference values.

NVIS GREEN A | K0401

LIGHT SOURCE: INCANDESCENT



CHROMATICITY & NVIS RADIANCE

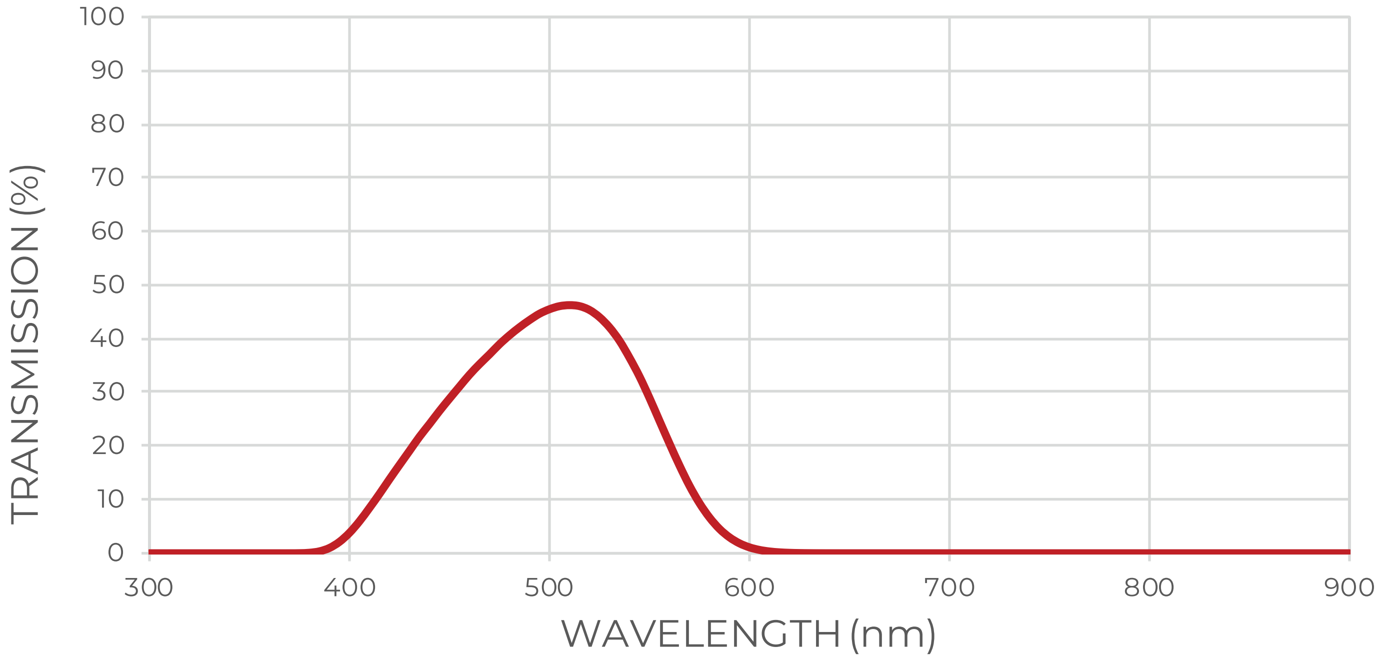
Source	u’	v’	x	y	Y(%)	N/ R A
1600 K	0.114	0.557	0.271	0.590	9.8	9.60E-11
1700 K	0.111	0.554	0.262	0.582	10.6	9.00E-11
1800 K	0.108	0.551	0.254	0.573	11.3	8.40E-11
1900 K	0.106	0.547	0.246	0.564	12.0	8.00E-11
2000K	0.105	0.544	0.240	0.555	12.6	7.70E-11
2100 K	0.103	0.541	0.234	0.545	13.1	7.40E-11
2200 K	0.102	0.538	0.228	0.536	13.6	7.20E-11

PHYSICAL PROPERTIES

Nominal Thickness Range	0.5 mm	**Transition Temperature**	462 °C
Refractive Index	1.652	**Annealing Temperature**	474 °C
Density	3.65 g/cc	**Deformation Temperature**	490 °C
Linear Thermal Expansion	104 E^{-7}/°C		

NVIS GREEN A | K0402

LIGHT SOURCE: INCANDESCENT



CHROMATICITY & NVIS RADIANCE

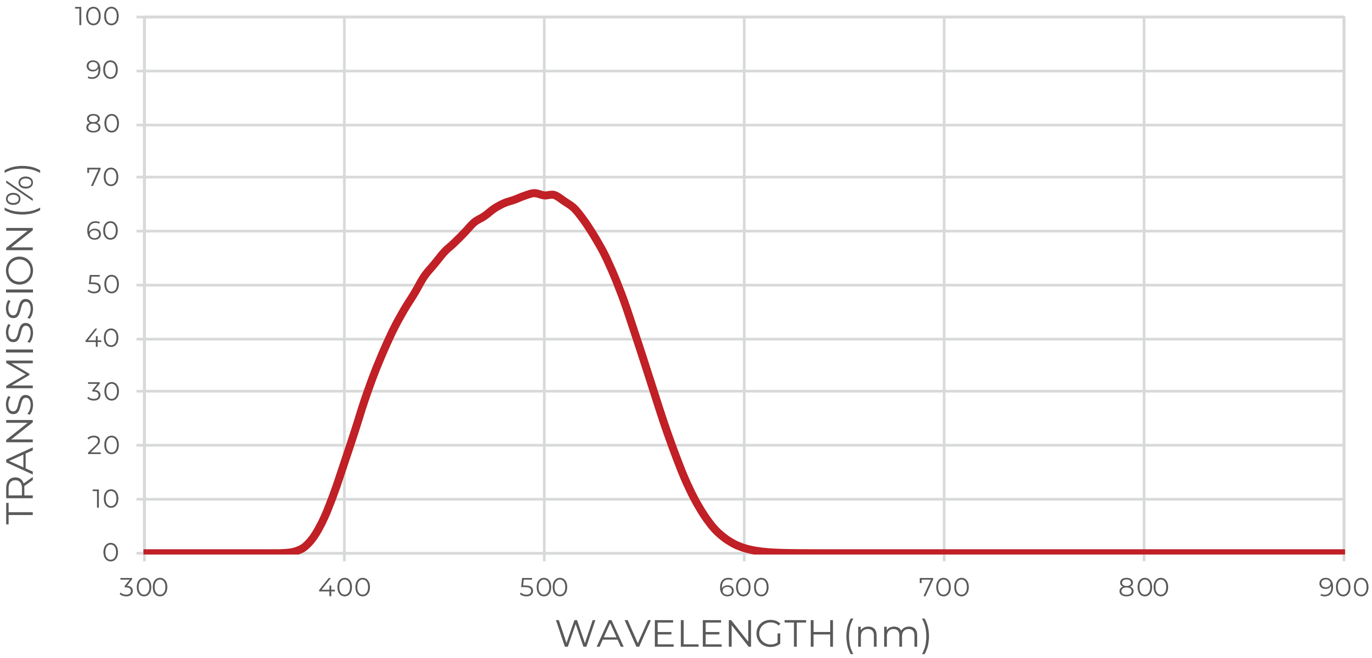
Source	u'	v'	x	y	Y(%)	N/ R A
1600 K	0.116	0.556	0.275	0.586	10.6	1.10E-10
1700 K	0.113	0.553	0.266	0.578	11.5	1.00E-10
1800 K	0.111	0.550	0.257	0.569	12.2	9.60E-11
1900 K	0.108	0.547	0.250	0.560	12.9	9.10E-11
2000K	0.107	0.543	0.243	0.550	13.5	8.60E-11
2100 K	0.105	0.540	0.237	0.541	14.1	8.30E-11
2200 K	0.104	0.537	0.231	0.531	14.7	8.00E-11

PHYSICAL PROPERTIES

Nominal Thickness Range	0.75 mm	**Transition Temperature**	476 °C
Refractive Index	1.677	**Annealing Temperature**	487 °C
Density	3.90 g/cc	**Deformation Temperature**	503 °C
Linear Thermal Expansion	98 E^{-7}/°C (30-300 °C)		

NVIS GREEN A | K0403

LIGHT SOURCE: INCANDESCENT



CHROMATICITY & NVIS RADIANCE

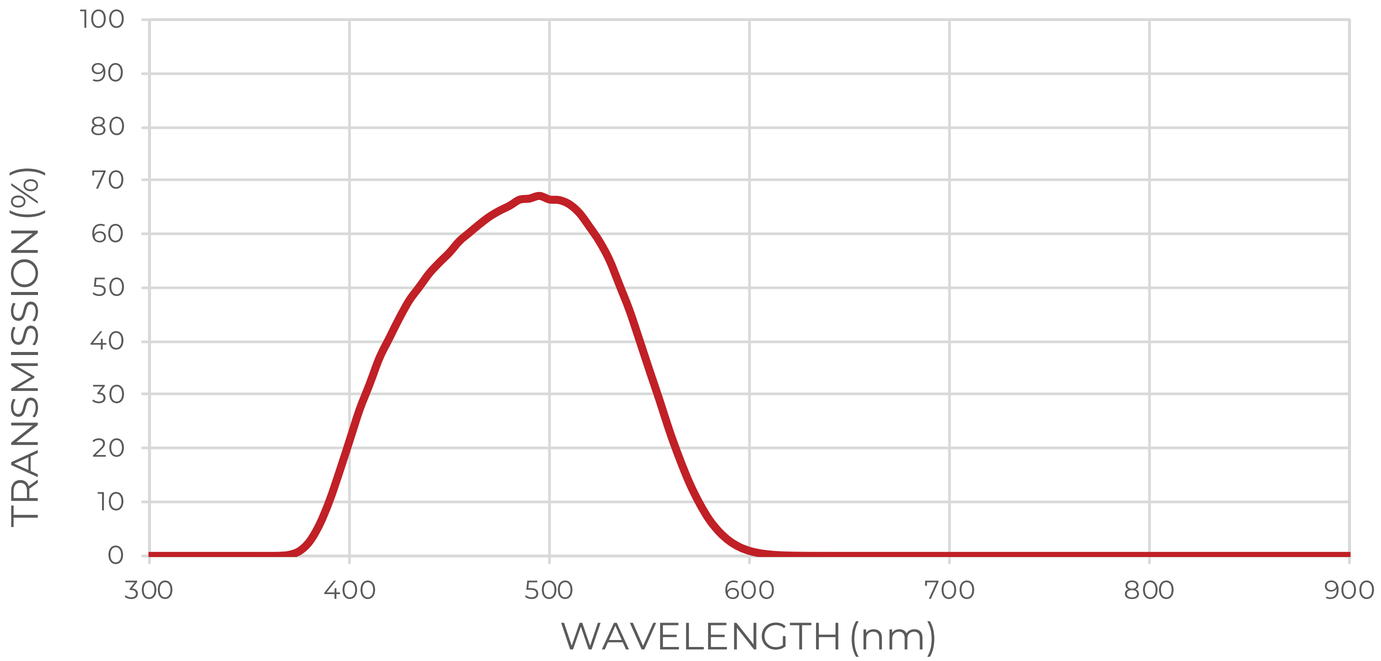
Source	u’	v’	x	y	Y(%)	N/ R A
1600 K	0.109	0.549	0.253	0.568	13.3	8.30E-11
1700 K	0.106	0.545	0.244	0.555	14.4	7.80E-11
1800 K	0.104	0.542	0.236	0.542	15.4	7.40E-11
1900 K	0.103	0.535	0.228	0.529	16.3	7.00E-11
2000K	0.101	0.531	0.222	0.516	17.2	6.70E-11
2100 K	0.100	0.526	0.216	0.503	18.0	6.50E-11
2200 K	0.100	0.522	0.211	0.491	18.8	6.30E-11

PHYSICAL PROPERTIES

Nominal Thickness Range	1.00 mm	**Transition Temperature**	476 °C
Refractive Index	1.671	**Annealing Temperature**	489 °C
Density	3.92 g/cc	**Deformation Temperature**	510 °C
Linear Thermal Expansion	105 E^{-7}/°C (30-300 °C)		

NVIS GREEN A | K0404

LIGHT SOURCE: INCANDESCENT



CHROMATICITY & NVIS RADIANCE

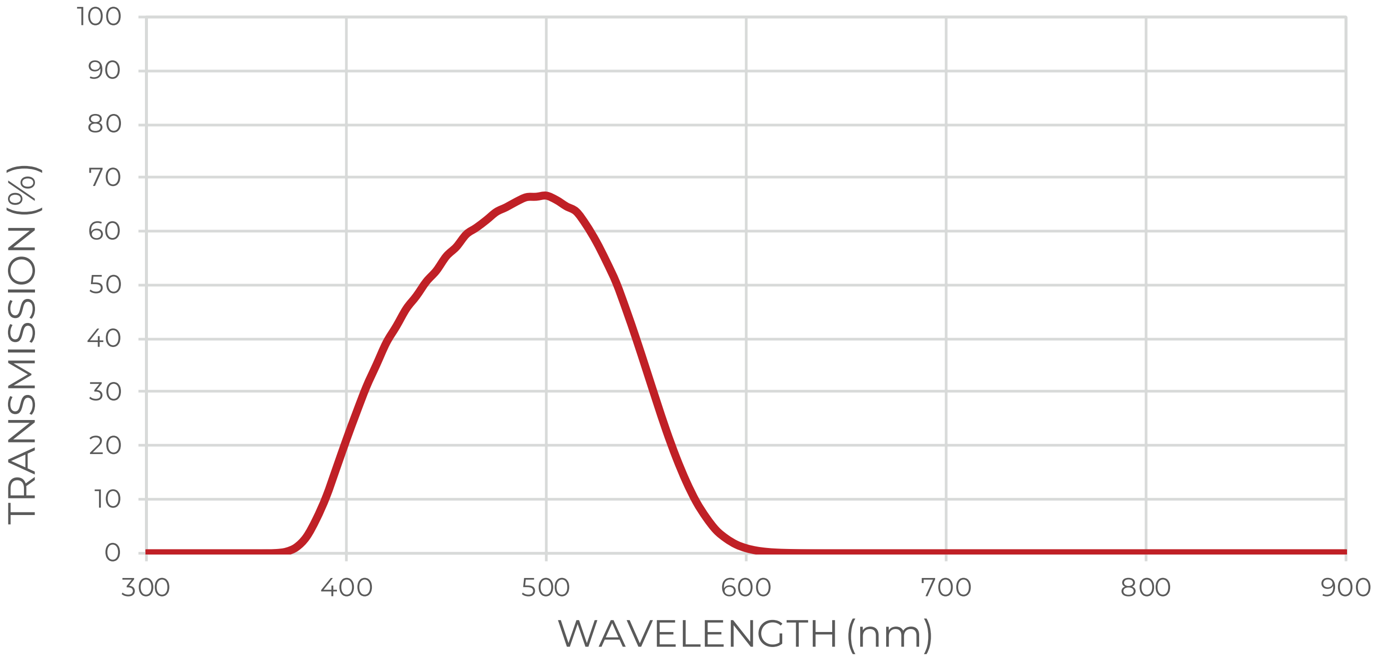
Source	u’	v’	x	y	Y(%)	N/ R A
1600 K	0.108	0.548	0.250	0.566	13.0	8.30E-11
1700 K	0.105	0.544	0.241	0.553	14.1	7.80E-11
1800 K	0.104	0.539	0.233	0.539	15.1	7.40E-11
1900 K	0.102	0.534	0.226	0.526	16.0	7.00E-11
2000K	0.101	0.529	0.219	0.512	16.8	6.80E-11
2100 K	0.100	0.525	0.213	0.499	17.6	6.50E-11
2200 K	0.099	0.520	0.208	0.486	18.4	6.30E-11

PHYSICAL PROPERTIES

Nominal Thickness Range	1.50 mm	**Transition Temperature**	499 °C
Refractive Index	1.634	**Annealing Temperature**	512 °C
Density	3.79 g/cc	**Deformation Temperature**	533 °C
Linear Thermal Expansion	104 E^{-7}/°C (30-300 °C)		

NVIS GREEN A | K0405

LIGHT SOURCE: INCANDESCENT



CHROMATICITY & NVIS RADIANCE

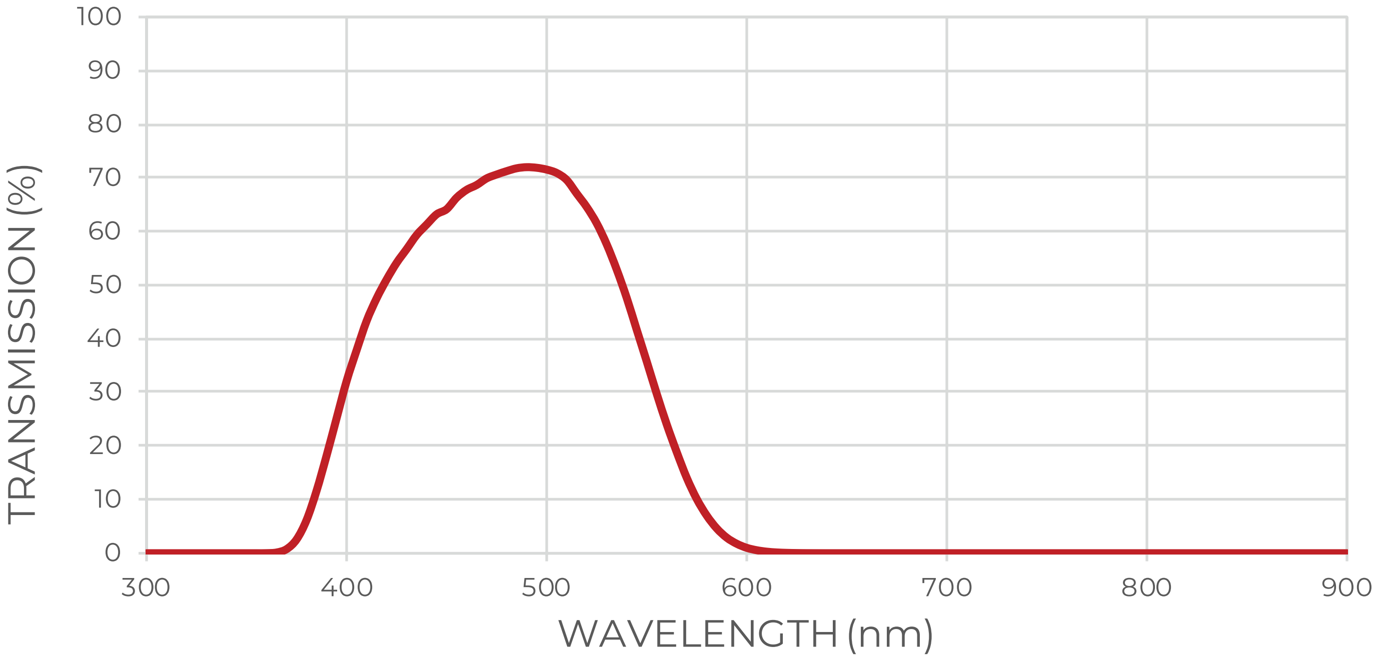
Source	u’	v’	x	y	Y(%)	N/ R A
1600 K	0.108	0.548	0.250	0.567	12.8	8.30E-11
1700 K	0.105	0.544	0.241	0.554	13.9	7.80E-11
1800 K	0.103	0.539	0.233	0.541	14.9	7.40E-11
1900 K	0.102	0.535	0.225	0.527	15.8	7.10E-11
2000K	0.100	0.530	0.219	0.514	16.6	6.80E-11
2100 K	0.099	0.525	0.213	0.501	17.4	6.60E-11
2200 K	0.098	0.520	0.208	0.488	18.2	6.40E-11

PHYSICAL PROPERTIES

Nominal Thickness Range	2.00 mm	**Transition Temperature**	493 °C
Refractive Index	1.65	**Annealing Temperature**	506 °C
Density	3.64 g/cc	**Deformation Temperature**	527 °C
Linear Thermal Expansion	98 E^{-7}/°C (30-300 °C)		

NVIS GREEN A | K0406

LIGHT SOURCE: INCANDESCENT



CHROMATICITY & NVIS RADIANCE

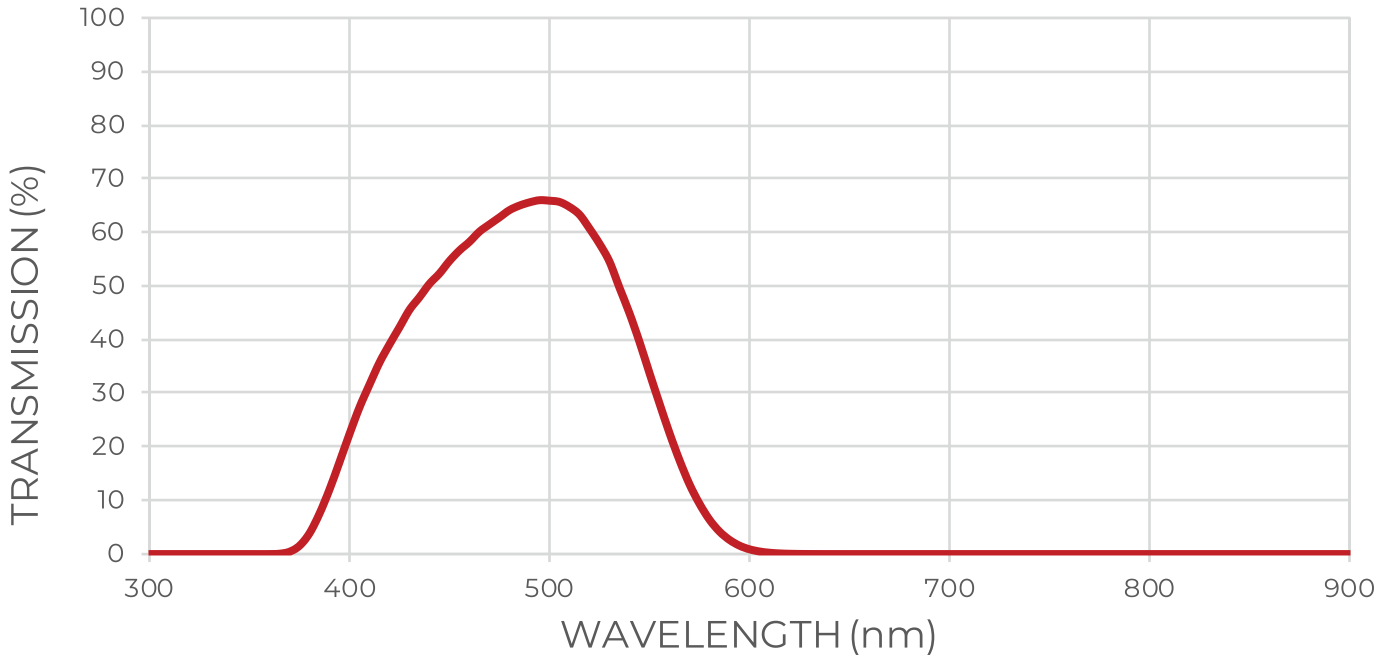
Source	u’	v’	x	y	Y(%)	N/ R A
1600 K	0.108	0.546	0.248	0.559	13.6	8.70E-11
1700 K	0.106	0.541	0.239	0.545	14.7	8.10E-11
1800 K	0.104	0.536	0.231	0.531	15.7	7.60E-11
1900 K	0.102	0.531	0.223	0.517	16.7	7.30E-11
2000K	0.101	0.526	0.217	0.502	17.6	7.00E-11
2100 K	0.100	0.521	0.211	0.489	18.4	6.70E-11
2200 K	0.099	0.516	0.206	0.476	19.2	6.50E-11

PHYSICAL PROPERTIES

Nominal Thickness Range	2.50 mm	**Transition Temperature**	503 °C
Refractive Index	1.653	**Annealing Temperature**	516 °C
Density	3.56 g/cc	**Deformation Temperature**	535 °C
Linear Thermal Expansion	102 E^{-7}/°C (30-300 °C)		

NVIS GREEN A | K0407

LIGHT SOURCE: WHITE LED



CHROMATICITY & NVIS RADIANCE

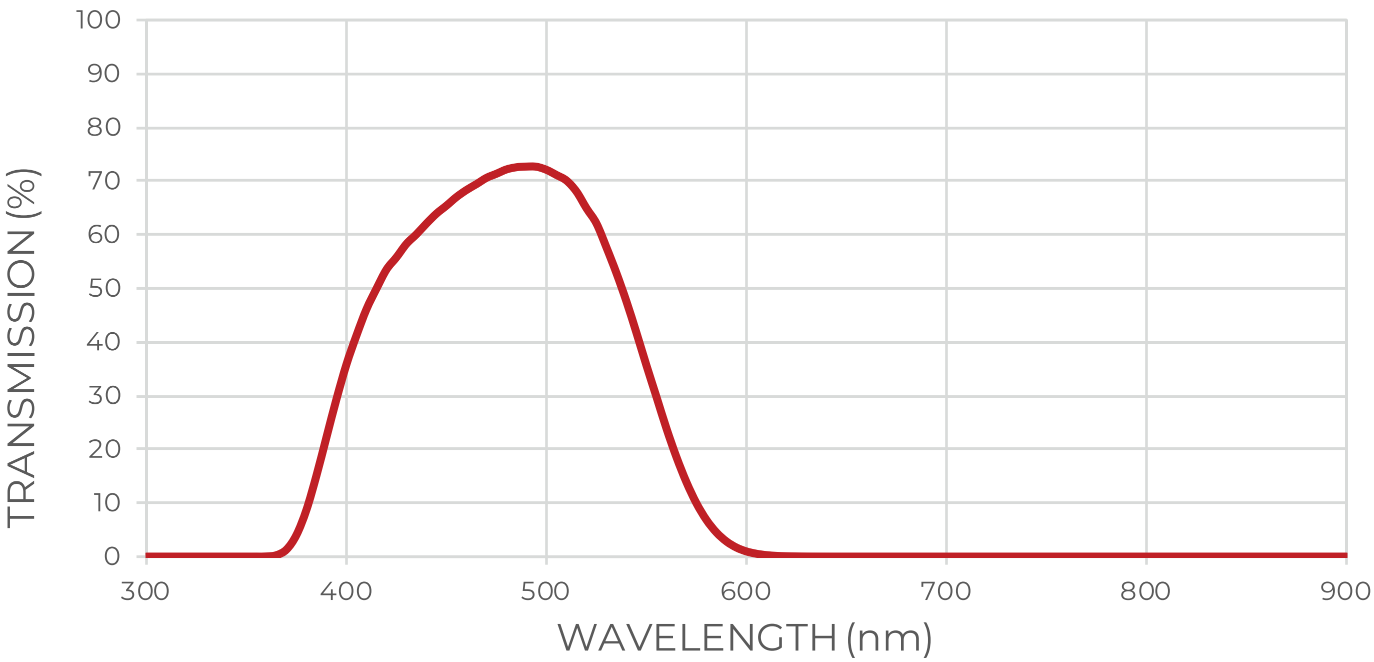
Source	u’	v’	x	y	Y(%)	N/ R A
1600 K	0.107	0.548	0.249	0.568	12.7	8.20E-11
1700 K	0.104	0.544	0.240	0.554	13.7	7.70E-11
1800 K	0.103	0.539	0.232	0.541	14.7	7.30E-11
1900 K	0.101	0.534	0.224	0.527	15.6	7.00E-11
2000K	0.100	0.530	0.218	0.514	16.4	6.70E-11
2100 K	0.099	0.525	0.212	0.501	17.2	6.50E-11
2200 K	0.098	0.520	0.207	0.489	18.0	6.30E-11

PHYSICAL PROPERTIES

Nominal Thickness Range	3.00 mm	**Transition Temperature**	513 °C
Refractive Index	1.644	**Annealing Temperature**	526 °C
Density	3.58 g/cc	**Deformation Temperature**	548 °C
Linear Thermal Expansion	95 E^{-7}/°C (30-300 °C)		

NVIS GREEN A | K0409

LIGHT SOURCE: WHITE LED



CHROMATICITY & NVIS RADIANCE

Source	u'	v'	x	y	Y(%)	N/ R A
1600 K	0.107	0.546	0.246	0.559	13.6	9.70E-11
1700 K	0.105	0.541	0.237	0.544	14.7	8.80E-11
1800 K	0.103	0.536	0.229	0.530	15.7	8.20E-11
1900 K	0.101	0.531	0.222	0.515	16.7	7.60E-11
2000K	0.100	0.526	0.215	0.501	17.6	7.20E-11
2100 K	0.099	0.520	0.210	0.487	18.4	6.90E-11
2200 K	0.099	0.515	0.204	0.474	19.2	6.60E-11

PHYSICAL PROPERTIES

Nominal Thickness Range 4.00 mm

Refractive Index 1.647

Density 3.57 g/cc

Linear Thermal Expansion 101 E^{-7}/°C (30-300 °C)

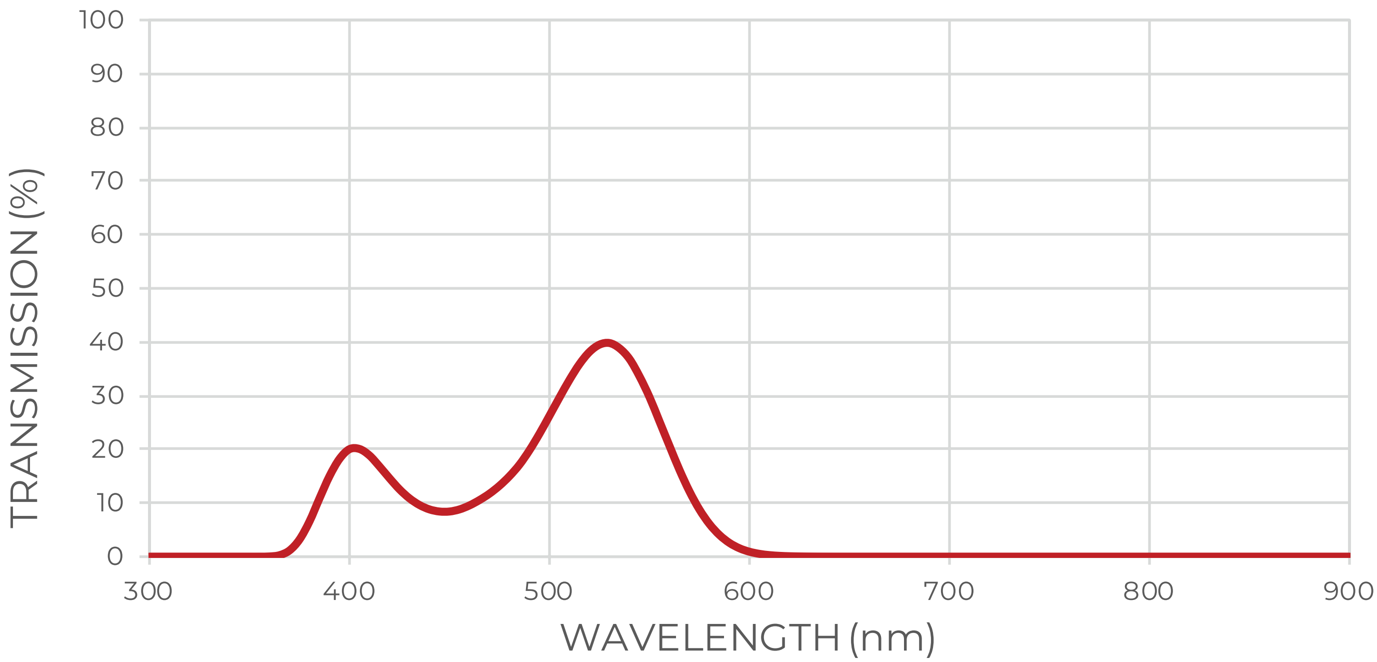
Transition Temperature 509 °C

Annealing Temperature 523 °C

Deformation Temperature 542 °C

NVIS GREEN A | K0425

LIGHT SOURCE: WHITE LED



CHROMATICITY & NVIS RADIANCE

Source	u’	v’	x	y	Y(%)	N/ R A
White LED 6815K	0.105	0.521	0.219	0.485	18.7	5.30E-11
Cree XPE White LED	0.102	0.515	0.209	0.472	18.6	5.30E-11
NICHIA NSSW 100DT White LED	0.106	0.536	0.234	0.528	17.8	5.60E-11

PHYSICAL PROPERTIES

Nominal Thickness Range 2.00 mm

Refractive Index 1.64

Density 3.66 g/cc

Linear Thermal Expansion 99 E^{-7}/°C (30-300 °C)

Transition Temperature 518 °C

Annealing Temperature 525 °C

Deformation Temperature 546 °C

HIGH-PERFORMANCE CUSTOM GLASS

for mission-critical applications

MATERIAL SCIENCE EXPERTISE

Founded over 90 years ago, Kopp Glass began with a deep understanding of glass chemistry and how it can be used to innovate. Today, our portfolio includes more than 200 different glasses. Depending on your need, our engineers and scientists are also able to create new compositions to meet tough design challenges.

APPLICATIONS ENGINEERING EXPERTISE

We refine product designs alongside customers to help them reduce costs and increase yields. While our solutions are crafted to perform in some of the harshest environments on Earth, they're also designed to help the performance of our customers' bottom lines.

RESPONSIVENESS

Kopp Glass is a small manufacturer, but the design and production challenges we face every working day are huge. Our customers see the difference in how we respond to them and in how our team responds to each other.

ON-TIME IN-SPEC DELIVERY

Kopp Glass works to ensure the mission-critical, molded glass components we ship meet your standards—the first time.

WORK WITH US

www.koppglass.com

Year Founded	1926
Ownership	Closely Held
Location	Pittsburgh, PA USA
No. of Employees	110
Mfg. Sq. Ft.	127,000
Quality System	ISO: 9001:2015

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