

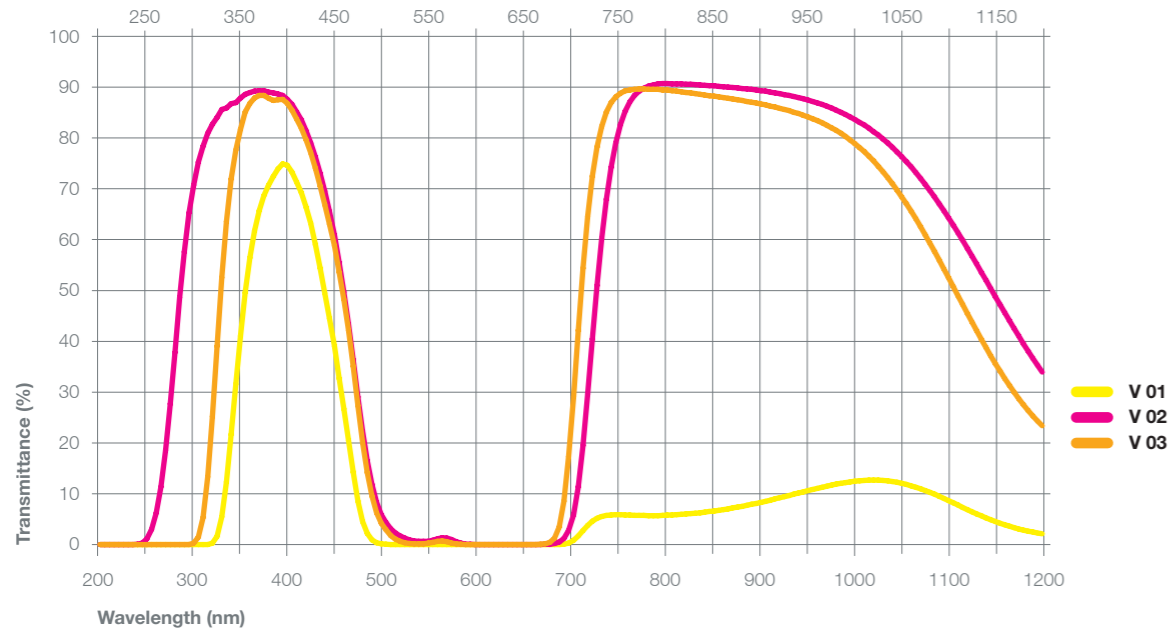
# Glass Types

<b>VIOLET</b>	<b>HEBO</b>	Schott	Hoya
	<b>V 01</b>		≈ B-390
	<b>V 02</b>	≈ BG 3	
	<b>V 03</b>		≈ B-370

## Violet Glass Characteristics

Type	Thickness (mm)	A[2856K]			D65			Chemical Stability		N <sub>D</sub>	α × 10 <sup>-7</sup> (°C)	T <sub>g</sub> (°C)	T <sub>s</sub> (°C)	ρ (g/cm <sup>3</sup> )
		x	y	Y	x	y	Y	D <sub>A</sub>	D <sub>w</sub>					
<b>V 01</b>	2	0.519	0.018	0.2	0.160	0.016	0.6	1	3	1.524	89	519	589	2.53
<b>V 02</b>	1	0.152	0.034	1.0	0.154	0.027	1.4	1	2	1.495	58	551	655	2.40
<b>V 03</b>	2	0.165	0.011	0.1	0.166	0.010	0.2	1	2	1.495	57	538	636	2.40

Type	Bubbles	Striae	Stress
<b>V 01</b>	C-B	4	3
<b>V 02</b>	C-B	4	3
<b>V 03</b>	C-B	4	3



	V 01	V 02	V 03
Thickness (mm)	2	1	2
Wavelength (nm)	%T	%T	%T
200	3·10 <sup>-4</sup>	9·10 <sup>-5</sup>	9·10 <sup>-4</sup>
210	5·10 <sup>-4</sup>	2·10 <sup>-4</sup>	6·10 <sup>-5</sup>
220	0,001	4·10 <sup>-4</sup>	0,001
230	8·10 <sup>-4</sup>	0,003	7·10 <sup>-4</sup>
240	6·10 <sup>-4</sup>	0,294	9·10 <sup>-4</sup>
250	2·10 <sup>-4</sup>	3,008	5·10 <sup>-4</sup>
260	1·10 <sup>-4</sup>	11,353	9·10 <sup>-5</sup>
270	0,001	27,735	4·10 <sup>-4</sup>
280	3·10 <sup>-4</sup>	48,600	7·10 <sup>-4</sup>
290	4·10 <sup>-4</sup>	65,270	0,027
300	0,001	75,251	1,487
310	0,022	80,908	13,305
320	1,655	84,059	39,036
330	12,339	85,922	63,554
340	31,542	86,984	77,626
350	49,576	88,614	85,092
360	61,722	89,224	87,853
370	68,663	89,329	88,384
380	72,422	88,878	87,362
390	74,933	88,375	87,614
400	73,308	86,607	85,456
410	69,229	83,541	81,939
420	63,243	79,053	77,135
430	54,408	73,052	70,620
440	44,539	65,554	63,075
450	32,698	55,497	53,605
460	20,492	43,365	42,165
470	8,574	29,061	27,388
480	2,187	16,517	14,209
490	0,378	8,320	6,261
500	0,068	4,287	2,880
510	0,006	2,258	1,036
520	4·10 <sup>-4</sup>	1,266	0,380
530	7·10 <sup>-5</sup>	0,742	0,162
540	7·10 <sup>-5</sup>	0,602	0,169
550	8·10 <sup>-4</sup>	0,820	0,413
560	8·10 <sup>-4</sup>	1,321	0,679
570	6·10 <sup>-4</sup>	1,001	0,306
580	9·10 <sup>-4</sup>	0,273	0,045
590	8·10 <sup>-4</sup>	0,043	0,007
600	9·10 <sup>-4</sup>	0,017	0,006
610	3·10 <sup>-4</sup>	0,016	0,011
620	0,001	0,021	0,014
630	6·10 <sup>-4</sup>	0,020	0,012
640	3·10 <sup>-4</sup>	0,016	0,009
650	5·10 <sup>-4</sup>	0,012	0,010
660	4·10 <sup>-4</sup>	0,017	0,028
670	0,001	0,042	0,150
680	6·10 <sup>-4</sup>	0,195	1,251
690	0,073	1,172	8,518

	V 01	V 02	V 03
Thickness (mm)	2	1	2
Wavelength (nm)	%T	%T	%T
700	0,848	5,887	29,130
710	2,773	19,487	54,365
720	4,585	40,494	72,514
730	5,532	60,250	82,311
740	5,843	74,233	86,949
750	5,859	82,652	88,824
760	5,789	87,101	89,469
770	5,717	89,262	89,652
780	5,688	90,232	89,611
790	5,704	90,665	89,595
800	5,792	90,686	89,425
810	5,886	90,658	89,215
820	6,009	90,592	88,963
830	6,166	90,502	88,715
840	6,370	90,376	88,471
850	6,621	90,295	88,228
900	8,304	89,286	86,650
950	10,605	87,420	84,143
1000	12,467	83,621	78,897
1050	12,065	76,341	68,410
1065	11,292	73,232	64,105
1100	8,641	64,290	52,483
1200	2,114	33,981	23,414
1300	1,437	19,243	17,880
1400	1,945	19,229	18,893
1500	1,164	16,306	14,235
1600	2,107	17,743	17,953
1700	2,288	19,478	18,318
1800	2,721	19,875	19,252
1900	6,403	27,083	27,530
2000	13,454	37,797	37,968
2100	21,481	46,203	46,697
2200	30,379	52,747	54,106
2300	39,821	60,006	61,220
2400	46,401	65,875	65,534
2500	48,638	68,837	66,389
2600	48,619	70,111	66,007
2700	46,606	65,190	63,002
2800	24,052	22,061	30,391
2900	22,111	24,906	27,798
3000	23,351	30,432	29,424