

$n_e$ 1.518294	$v_e$ 63.86	$n_{F'} - n_{C'}$ 0.008116
$n_d$ 1.516373	$v_d$ 64.07	$n_F - n_C$ 0.008060

Class of bubbles	Viscosity temperature				
	$\eta$ [Poise]	$10^{14.5}$	$10^{13}$	$10^{10}$	$10^8$
1	$t$ [°C]	500	550	630	690

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
$\Delta P$	-0.010	-0.0003	+0.0004	+0.0004
$\Delta v_e$	-1.0	-0.2	+0.7	-0.6
	$i - F$	$g - F$	$F - e$	$F - r$
$\Delta P$	-0.009	+/-0	+0.0005	+0.0008
$\Delta v_d$	-0.9	+/-0	+0.9	-1.4

Stress optical coefficient $B$ [ $\text{nm} \cdot \text{cm}^{-1} / \text{kp} \cdot \text{cm}^{-2}$ ], $\lambda = 550 \text{nm}$	Thermal conductivity			
	-50°C	0°C	+20°C	+50°C
2.70	0.83	0.92	0.95	0.97

Young's modulus $E$ [ $\text{kp} \cdot \text{mm}^{-2}$ ]	Shear modulus $G$ [ $\text{kp} \cdot \text{mm}^{-2}$ ]	Coefficient of linear thermal expansion $\alpha_{20/t}$ $10^7$ [°C]	Chemical resistance	
			Stain resistance	Group
8230	3404			I
Poisson's ratio $\mu$	Density $\rho$ [ $\text{g} \cdot \text{cm}^{-3}$ ]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance
		68	76	
0.209	2.52			Group A

Optical density increment on irradiation		
Initial density $D_0$ [ $\text{cm}^{-1}$ ]	Radiation dose [R]	Optical density increment $\Delta D$ [ $\text{cm}^{-1}$ ]
0.039	$1 \cdot 10^4$	0.035
	$1 \cdot 10^5$	0.21

Refractive indices		
$\lambda$ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.53582
404.66	h	1.52982
435.83	g	1.526266
479.99	F'	1.522408
486.13	F	1.521955
546.07	e	1.518294
587.56	d	1.516373
589.29	D	1.516300
643.85	C'	1.514292
656.27	C	1.513895
706.52	r	1.51246
768.2	-	1.51100
852.1	-	1.50937
1013.9	-	1.50687
1128.6	-	1.50536
1395.1	-	1.50210
1529.6	-	1.50045
1813.1	-	1.49674
1970.1	-	1.49449
2249.3	-	1.49008
2325.4	-	1.48878

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	55.5
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	63.86
$v_d = \frac{n_d - 1}{n_F - n_C}$	64.07
$v_D = \frac{n_D - 1}{n_F - n_C}$	64.05
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	29.8

Relative partial dispersions		
$\Delta n$	$\frac{\Delta n}{n_{F'} - n_{C'}}$	$\frac{\Delta n}{n_F - n_C}$
312.6 - 334.1	-	-
334.1 - i	-	-
i - h	0.739	0.744
h - g	0.4379	0.4409
g - F	0.5312	0.5349
g - F'	0.4755	0.4787
F - e	0.4511	0.4542
F - D	0.6968	0.7016
F' - e	0.5069	0.5104
d - D	0.0090	0.0091
D - C	0.2964	0.2984
e - C'	0.4931	0.4965
e - C	0.5421	0.5458
C' - r	0.225	0.227
C - r	0.176	0.177
r - 852.1	0.381	0.384
852.1 - 1013.9	0.308	0.310
1013.9 - 1128.6	0.186	0.187
1128.6 - 1395.1	0.401	0.404
1395.1 - 1529.6	0.204	0.205
1529.6 - 1813.1	0.457	0.460
1813.1 - 1970.1	0.277	0.279
1970.1 - 2249.3	0.544	0.548
2249.3 - 2325.4	0.161	0.162

Internal transmittance		
$\lambda$ [nm]	$\tau_i$ (s=10mm)	$\tau_i$ (s=25mm)
280	-	-
300	0.047	-
320	0.501	0.177
340	0.850	0.666
360	0.967	0.919
380	0.975	0.939
400	0.992	0.980
420	0.991	0.978
440	0.990	0.975
460	0.992	0.980
480	0.993	0.983
500	0.994	0.985
520	0.995	0.987
540	0.996	0.990
560	0.996	0.990
580	0.995	0.987
600	0.994	0.985
620	0.993	0.983
640	0.992	0.980
660	0.993	0.983
680	0.994	0.985
700	0.995	0.987
750	0.995	0.987
800	0.995	0.987
900	0.994	0.985
1000	0.993	0.983
1050	0.993	0.983
1100	0.993	0.983
1200	0.993	0.983
1300	0.992	0.980
1400	0.967	0.919
1500	0.987	0.968

Refractive indices at laser wavelengths	
$\lambda$ [nm]	n
350.7	-
356.4	-
488.0	1.52181
514.0	1.52009
520.8	1.51968
530.0	1.51916
568.2	1.51722
632.8	1.51466
647.1	1.51419
694.3	1.51279
890.0	1.50872
1060.0	1.50625

Radiation resistant analogue glass type-

**K108, K208**