

$n_e$ 1.548861	$v_e$ 62.56	$n_{F'} - n_{C'}$ 0.008774
$n_d$ 1.546779	$v_d$ 62.78	$n_F - n_C$ 0.008710

Class of bubbles	Viscosity temperature				
	$\eta$ [Poise]	$10^{14.5}$	$10^{13}$	$10^{10}$	$10^8$
2	$t$ [°C]	570	595	660	720

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
$\Delta P$	-0.005	+0.0002	+0.0001	-0.0012
$\Delta v_e$	-0.5	+0.1	+0.1	+1.6
	$i - F$	$g - F$	$F - e$	$F - r$
$\Delta P$	-0.004	+0.0005	+0.0002	-0.0008
$\Delta v_d$	-0.4	+0.3	+0.4	+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
2.85	0.75	0.79	0.82	0.84

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	
8190	3332			III	
Poisson's ratio $\mu$	Density $\rho$ [ $\text{g} \cdot \text{cm}^{-3}$ ]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		56	62	Group	A
0.229	2.83				

Optical density increment on irradiation		
Initial density $D_0$ [ $\text{cm}^{-1}$ ]	Radiation dose [R]	Optical density increment $\Delta D$ [ $\text{cm}^{-1}$ ]
0.040	$1 \cdot 10^4$	0.0055
	$1 \cdot 10^5$	0.38

Refractive indices		
$\lambda$ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.56796
404.66	h	1.56137
435.83	g	1.557504
479.99	F'	1.553312
486.13	F	1.552821
546.07	e	1.548861
587.56	d	1.546779
589.29	D	1.546700
643.85	C'	1.544538
656.27	C	1.544111
706.52	r	1.54258
768.2	-	1.54102
852.1	-	1.53929
1013.9	-	1.53668
1128.6	-	1.53513
1395.1	-	1.53184
1529.6	-	1.53019
1813.1	-	1.52647
1970.1	-	1.52421
2249.3	-	1.51972
2325.4	-	1.51839

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	53.7
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	62.56
$v_d = \frac{n_d - 1}{n_F - n_C}$	62.78
$v_D = \frac{n_D - 1}{n_F - n_C}$	62.77
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	31.3

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	0.751	0.756
h - g	0.4406	0.4439
g - F	0.5337	0.5377
g - F'	0.4778	0.4813
F - e	0.4513	0.4547
F - D	0.6976	0.7028
F' - e	0.5073	0.5110
d - D	0.0090	0.0091
D - C	0.2951	0.2972
e - C'	0.4927	0.4963
e - C	0.5414	0.5454
C' - r	0.224	0.225
C - r	0.175	0.176
r - 852.1	0.375	0.377
852.1 - 1013.9	0.297	0.299
1013.9 - 1128.6	0.177	0.178
1128.6 - 1395.1	0.375	0.377
1395.1 - 1529.6	0.189	0.190
1529.6 - 1813.1	0.424	0.427
1813.1 - 1970.1	0.258	0.260
1970.1 - 2249.3	0.511	0.515
2249.3 - 2325.4	0.152	0.154

Internal transmittance		
$\lambda$ [nm]	$\tau_i$ (s=10mm)	$\tau_i$ (s=25mm)
280	-	-
300	-	-
320	-	-
340	-	-
360	0.916	0.803
380	0.960	0.903
400	0.986	0.966
420	0.987	0.968
440	0.987	0.968
460	0.990	0.975
480	0.994	0.985
500	0.994	0.985
520	0.995	0.987
540	0.995	0.987
560	0.995	0.987
580	0.995	0.987
600	0.994	0.985
620	0.994	0.985
640	0.994	0.985
660	0.994	0.985
680	0.995	0.987
700	0.995	0.987
750	0.995	0.987
800	0.995	0.987
900	0.994	0.985
1000	0.994	0.985
1050	0.994	0.985
1100	0.994	0.985
1200	0.994	0.985
1300	0.974	0.936
1400	0.989	0.972
1500	-	-

Refractive indices at laser wavelengths	
$\lambda$ [nm]	n
350.7	-
356.4	-
488.0	1.55268
514.0	1.55081
520.8	1.55037
530.0	1.54979
568.2	1.54770
632.8	1.54494
647.1	1.54442
694.3	1.54292
890.0	1.53861
1060.0	1.53604

Radiation resistant analogue glass type-

**BK108**