

$n_e$ 1.582159	$v_e$ 53.57	$n_{F'} - n_{C'}$ 0.010867
$n_d$ 1.579595	$v_d$ 53.87	$n_F - n_C$ 0.010760

Class of bubbles	Viscosity temperature				
	$\eta$ [Poise]	$10^{14.5}$	$10^{13}$	$10^{10}$	$10^8$
4	$t$ [°C]	475	520	625	710

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
$\Delta P$	-0.018	-0.0004	+0.0013	+0.0006
$\Delta v_e$	-2.0	-0.3	+2.3	-0.8
	$i - F$	$g - F$	$F - e$	$F - r$
$\Delta P$	-0.017	+0.0002	+0.0015	+0.0012
$\Delta v_d$	-1.7	+0.1	+2.6	-2.2

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
3.15	0.71	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	
6760	2817			I	
Poisson's ratio $\mu$	Density $\rho$ [ $\text{g}\cdot\text{cm}^{-3}$ ]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		55	60	Group	A
0.200	2.51				

Optical density increment on irradiation		
Initial density $D_0$ [ $\text{cm}^{-1}$ ]	Radiation dose [R]	Optical density increment $\Delta D$ [ $\text{cm}^{-1}$ ]
0.043	$1 \cdot 10^4$	0.030
	$1 \cdot 10^5$	0.13

Refractive indices		
$\lambda$ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.60665
404.66	h	1.59805
435.83	g	1.593071
479.99	F'	1.587741
486.13	F	1.587120
546.07	e	1.582159
587.56	d	1.579595
589.29	D	1.579500
643.85	C'	1.576874
656.27	C	1.576360
706.52	r	1.57452
768.2	-	1.57270
852.1	-	1.57072
1013.9	-	1.56787
1128.6	-	1.56626
1395.1	-	1.56306
1529.6	-	1.5615
1813.1	-	1.55824
1970.1	-	1.55631
2249.3	-	1.55258
2325.4	-	1.55149

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	44.0
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	53.57
$v_d = \frac{n_d - 1}{n_F - n_C}$	53.87
$v_D = \frac{n_D - 1}{n_F - n_C}$	53.86
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	36.7

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	0.791	0.799
h - g	0.4582	0.4630
g - F	0.5476	0.5531
g - F'	0.4905	0.4954
F - e	0.4565	0.4611
F - D	0.7012	0.7082
F' - e	0.5137	0.5188
d - D	0.0087	0.0088
D - C	0.2890	0.2918
e - C'	0.4863	0.4912
e - C	0.5336	0.5389
C' - r	0.216	0.218
C - r	0.169	0.171
r - 852.1	0.350	0.353
852.1 - 1013.9	0.262	0.265
1013.9 - 1128.6	0.148	0.149
1128.6 - 1395.1	0.295	0.298
1395.1 - 1529.6	0.141	0.142
1529.6 - 1813.1	0.303	0.306
1813.1 - 1970.1	0.179	0.180
1970.1 - 2249.3	0.343	0.347
2249.3 - 2325.4	0.100	0.101

Internal transmittance		
$\lambda$ [nm]	$\tau_i$ (s=10mm)	$\tau_i$ (s=25mm)
280	-	-
300	-	-
320	0.100	-
340	0.450	0.136
360	0.842	0.651
380	0.944	0.866
400	0.981	0.951
420	0.986	0.966
440	0.988	0.971
460	0.991	0.978
480	0.993	0.983
500	0.994	0.985
520	0.995	0.987
540	0.995	0.987
560	0.996	0.990
580	0.995	0.987
600	0.994	0.985
620	0.998	0.995
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	0.993	0.983
1000	0.992	0.980
1050	0.992	0.980
1100	0.992	0.980
1200	0.992	0.980
1300	0.992	0.980
1400	0.991	0.978
1500	0.990	0.975

Refractive indices at laser wavelengths	
$\lambda$ [nm]	n
350.7	-
356.4	-
488.0	1.48777
514.0	1.48622
520.8	1.48586
530.0	1.48538
568.2	1.48363
632.8	1.48131
647.1	1.48088
694.3	1.47960
890.0	1.47585
1060.0	1.47352

Radiation resistant analogue glass type-

**BF107**