

$n_e$ 1.542136	$\nu_e$ 53.39	$n_{F'} - n_{C'}$ 0.009128
$n_d$ 1.539982	$\nu_d$ 59.67	$n_F - n_C$ 0.009050

Class of bubbles	Viscosity temperature				
	$\eta$ [Poise]	$10^{14.5}$	$10^{13}$	$10^{10}$	$10^8$
2	$t$ [°C]	510	560	640	710

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
$\Delta P$	-0.009	+0.0011	+0.0010	-0.01
$\Delta \nu_e$	-1.0	+0.7	+1.8	+9.6
	$i - F$	$g - F$	$F - e$	$F - r$
$\Delta P$	-0.007	+0.0019	+0.0012	-0.01
$\Delta \nu_d$	-0.7	+1.1	+2.1	+11.3

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	0.72	0.75	0.76	0.77

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	
7150	2902			IV	
Poisson's ratio $\mu$	Density $\rho$ [ $\text{g} \cdot \text{cm}^{-3}$ ]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		74	82	Group	A
0.232	2.86				

Optical density increment on irradiation		
Initial density $D_0$ [ $\text{cm}^{-1}$ ]	Radiation dose [R]	Optical density increment $\Delta D$ [ $\text{cm}^{-1}$ ]
0.042	$1 \cdot 10^4$	0.0045
	$1 \cdot 10^5$	0.40

Refractive indices		
$\lambda$ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.56226
404.66	h	1.55529
435.83	g	1.551204
479.99	F'	1.546792
486.13	F	1.546276
546.07	e	1.542136
587.56	d	1.539982
589.29	D	1.539900
643.85	C'	1.537664
656.27	C	1.537226
706.52	r	1.5357
768.2	-	1.5341
852.1	-	1.5324
1013.9	-	1.5298
1128.6	-	1.5284
1395.1	-	1.5254
1529.6	-	1.5239
1813.1	-	1.5207
1970.1	-	1.5188
2249.3	-	1.5151
2325.4	-	1.5140

Dispersion coefficients	
$\nu_h = \frac{n_h - 1}{n_i - n_g}$	50.2
$\nu_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	59.39
$\nu_d = \frac{n_d - 1}{n_F - n_C}$	59.67
$\nu_D = \frac{n_D - 1}{n_F - n_C}$	59.66
$\nu_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	36

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	0.764	0.770
h - g	0.4477	0.4515
g - F	0.5399	0.5445
g - F'	0.4834	0.4876
F - e	0.4536	0.4574
F - D	0.6986	0.7045
F' - e	0.5101	0.5144
d - D	0.0090	0.0091
D - C	0.2930	0.2955
e - C'	0.4899	0.4941
e - C	0.5380	0.5425
C' - r	0.22	0.22
C - r	0.17	0.17
r - 852.1	0.36	0.36
852.1 - 1013.9	0.28	0.28
1013.9 - 1128.6	0.16	0.16
1128.6 - 1395.1	0.33	0.33
1395.1 - 1529.6	0.16	0.16
1529.6 - 1813.1	0.35	0.35
1813.1 - 1970.1	0.21	0.21
1970.1 - 2249.3	0.41	0.41
2249.3 - 2325.4	0.12	0.12

Internal transmittance		
$\lambda$ [nm]	$\tau_i$ (s=10mm)	$\tau_i$ (s=25mm)
280	-	-
300	0.033	-
320	0.461	0.144
340	0.854	0.674
360	0.973	0.934
380	0.992	0.980
400	0.991	0.978
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	0.992	0.980
680	0.993	0.983
700	0.994	0.985
750	0.994	0.985
800	0.993	0.983
900	0.991	0.978
1000	0.990	0.975
1050	0.989	0.972
1100	0.989	0.972
1200	0.989	0.972
1300	0.989	0.972
1400	0.985	0.963
1500	0.985	0.963

Refractive indices at laser wavelengths	
$\lambda$ [nm]	n
350.7	-
356.4	-
488.0	1.54612
514.0	1.54417
520.8	1.54371
530.0	1.54311
568.2	1.54093
632.8	1.53807
647.1	1.53755
694.3	1.5360
890.0	1.5317
1060.0	1.5292

Radiation resistant analogue glass type-

**BK106**