

n_e 1.532367	v_e 60.20	$n_{F'} - n_{C'}$ 0.008843
n_d 1.530279	v_d 60.47	$n_F - n_C$ 0.008770

Class of bubbles	Viscosity temperature				
	η [Poise]	$10^{14.5}$	10^{13}	10^{10}	10^8
2	t [°C]	515	555	650	730

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
ΔP	-0.009	-0.0003	+0.0020	-0.0028
Δv_e	-1.0	-0.2	+3.5	+3.9
	$i - F$	$g - F$	$F - e$	$F - r$
ΔP	-0.007	+0.0004	+0.0022	-0.0022
Δv_d	-0.7	+0.2	+3.7	+4.0

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
3.00	-	-	0.90	-

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	
7170	2924			I	
Poisson's ratio μ	Density ρ [$\text{g} \cdot \text{cm}^{-3}$]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		74	80	Group	A
0.226	2.76				

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

Refractive indices		
λ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.55180
404.66	h	1.54508
435.83	g	1.541128
479.99	F'	1.536877
486.13	F	1.536378
546.07	e	1.532367
587.56	d	1.530279
589.29	D	1.530200
643.85	C'	1.528034
656.27	C	1.527608
706.52	r	1.52609
768.2	-	1.52455
852.1	-	1.52287
1013.9	-	1.52038
1128.6	-	1.51894
1395.1	-	1.51596
1529.6	-	1.51450
1813.1	-	1.51127
1970.1	-	1.50934
2249.3	-	1.50555
2325.4	-	1.50443

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	51.1
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	60.20
$v_d = \frac{n_d - 1}{n_F - n_C}$	60.47
$v_D = \frac{n_D - 1}{n_F - n_C}$	60.46
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	35.7

Relative partial dispersions		
Δn	$\frac{\Delta n}{n_{F'} - n_{C'}}$	$\frac{\Delta n}{n_F - n_C}$
312.6 - 334.1	-	-
334.1 - i	-	-
i - h	0.760	0.766
h - g	0.4469	0.4505
g - F	0.5371	0.5416
g - F'	0.4808	0.4848
F - e	0.4536	0.4574
F - D	0.6986	0.7045
F' - e	0.5100	0.5142
d - D	0.0089	0.0090
D - C	0.2931	0.2955
e - C'	0.4900	0.4941
e - C	0.5382	0.5426
C' - r	0.220	0.222
C - r	0.172	0.174
r - 852.1	0.364	0.367
852.1 - 1013.9	0.281	0.284
1013.9 - 1128.6	0.163	0.165
1128.6 - 1395.1	0.337	0.339
1395.1 - 1529.6	0.165	0.167
1529.6 - 1813.1	0.365	0.368
1813.1 - 1970.1	0.219	0.220
1970.1 - 2249.3	0.428	0.432
2249.3 - 2325.4	0.126	0.128

Internal transmittance		
λ [nm]	τ_i (s=10mm)	τ_i (s=25mm)
280	-	-
300	-	-
320	-	-
340	0.896	0.760
360	0.941	0.859
380	0.958	0.898
400	0.984	0.960
420	0.985	0.963
440	0.986	0.966
460	0.990	0.975
480	0.992	0.980
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	0.995	0.987
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	0.997
800	0.995	0.997
900	0.992	0.980
1000	0.991	0.978
1050	0.991	0.978
1100	0.991	0.978
1200	-	-
1300	-	-
1400	-	-
1500	-	-

Refractive indices at laser wavelengths	
λ [nm]	n
350.7	-
356.4	-
488.0	1.53622
514.0	1.53433
520.8	1.53389
530.0	1.53331
568.2	1.53120
632.8	1.52843
647.1	1.52792
694.3	1.52643
890.0	1.52222
1060.0	1.51978

Radiation resistant analogue glass type-

BK104