

n_e 1.484608	v_e 66.17	$n_{F'} - n_{C'}$ 0.007324
n_d 1.482866	v_d 66.33	$n_F - n_C$ 0.007280

Class of bubbles	Viscosity temperature				
	η [Poise]	$10^{14.5}$	10^{13}	10^{10}	10^8
3	t [°C]	535	610	715	825

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
ΔP	-0.009	-0.0025	-0.0012	+0.0004
Δv_e	-1.0	-1.7	-2.1	-0.5
	$i - F$	$g - F$	$F - e$	$F - r$
ΔP	10.009	-0.0026	-0.0011	+0.0005
Δv_d	-0.9	-1.5	-2.0	-0.9

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
3.55	0.77	0.90	0.94	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 $\alpha_{20/t} \cdot 10^7$ [°C]	Chemical resistance		
			Stain resistance	Group	
6930	2909			I	
Poisson's ratio μ	Density ρ [$\text{g} \cdot \text{cm}^{-3}$]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
0.191	2.30	40	44	Group	A

Optical density increment on irradiation		
Initial density D_0 [cm^{-1}]	Radiation dose [R]	Optical density increment ΔD [cm^{-1}]
0.037	$1 \cdot 10^4$	0.010
	$1 \cdot 10^5$	0.10

Refractive indices		
λ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.50025
404.66	h	1.49490
435.83	g	1.491739
479.99	F'	1.488299
486.13	F	1.487893
546.07	e	1.484608
587.56	d	1.482866
589.29	D	1.482800
643.85	C'	1.480975
656.27	C	1.480613
706.52	r	1.47931
768.2	-	1.47797
852.1	-	1.47645
1013.9	-	1.47411
1128.6	-	1.47267
1395.1	-	1.46951
1529.6	-	1.46789
1813.1	-	1.46420
1970.1	-	1.46194
2249.3	-	1.45748
2325.4	-	1.45615

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	58.2
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	66.17
$v_d = \frac{n_d - 1}{n_F - n_C}$	66.33
$v_D = \frac{n_D - 1}{n_F - n_C}$	66.32
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	28.1

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	0.730	0.735
h - g	0.4316	0.4342
g - F	0.5251	0.5282
g - F'	0.4697	0.4726
F - e	0.4485	0.4512
F - D	0.6954	0.6996
F' - e	0.5039	0.5070
d - D	0.0090	0.0091
D - C	0.2986	0.3004
e - C'	0.4961	0.4990
e - C	0.5455	0.5488
C' - r	0.228	0.229
C - r	0.178	0.179
r - 852.1	0.390	0.392
852.1 - 1013.9	0.320	0.322
1013.9 - 1128.6	0.197	0.198
1128.6 - 1395.1	0.431	0.433
1395.1 - 1529.6	0.222	0.223
1529.6 - 1813.1	0.504	0.507
1813.1 - 1970.1	0.308	0.310
1970.1 - 2249.3	0.610	0.613
2249.3 - 2325.4	0.181	0.182

Internal transmittance		
λ [nm]	τ_i (s=10mm)	τ_i (s=25mm)
280	-	-
300	0.390	0.094
320	0.526	0.200
340	0.830	0.628
360	0.936	0.848
380	0.938	0.852
400	0.986	0.966
420	0.978	0.946
440	0.975	0.939
460	0.982	0.956
480	0.983	0.958
500	0.986	0.966
520	0.989	0.972
540	0.991	0.978
560	0.991	0.978
580	0.991	0.978
600	0.990	0.975
620	0.989	0.972
640	0.989	0.972
660	0.989	0.972
680	0.990	0.975
700	0.992	0.980
750	0.994	0.985
800	0.996	0.990
900	0.997	0.993
1000	0.997	0.993
1050	0.997	0.993
1100	0.997	0.993
1200	0.997	0.993
1300	0.997	0.993
1400	0.976	0.941
1500	0.994	0.985

Refractive indices at laser wavelengths	
λ [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-

LK107