

n_e 1.520005	v_e 50.87	$n_{F'} - n_{C'}$ 0.010223
n_d 1.517590	v_d 51.15	$n_F - n_C$ 0.010120

Class of bubbles	Viscosity temperature				
	η [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'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
ΔP	+0.014	+0.0008	-0.0003	-0.0004
Δv_e	+1.5	+0.6	-0.4	+0.6
	$i - F$	$g - F$	$F - e$	$F - r$
ΔP	+0.014	+0.0010	-0.0002	-0.0002
Δv_d	+1.4	+0.6	-0.3	+0.4

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
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 μ	Density ρ [$\text{g}\cdot\text{cm}^{-3}$]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		55	60	Group	A
0.200	2.15				

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

Refractive indices		
λ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.54363
404.66	h	1.53512
435.83	g	1.530324
479.99	F'	1.525256
486.13	F	1.524670
546.07	e	1.520005
587.56	d	1.517590
589.29	D	1.517500
643.85	C'	1.515033
656.27	C	1.514550
706.52	r	1.51283
768.2	-	1.51111
852.1	-	1.50923
1013.9	-	1.50647
1128.6	-	1.50488
1395.1	-	1.50163
1529.6	-	1.50005
1813.1	-	1.49656
1970.1	-	1.49447
2249.3	-	1.49039
2325.4	-	1.48918

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	40.2
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	50.87
$v_d = \frac{n_d - 1}{n_F - n_C}$	51.15
$v_D = \frac{n_D - 1}{n_F - n_C}$	51.13
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	31.1

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	0.832	0.841
h - g	0.4691	0.4738
g - F	0.5531	0.5587
g - F'	0.4957	0.5008
F - e	0.4563	0.4510
F - D	0.7013	0.7085
F' - e	0.5137	0.5189
d - D	0.0088	0.0089
D - C	0.2886	0.2915
e - C'	0.4863	0.4913
e - C	0.5336	0.5390
C' - r	0.215	0.218
C - r	0.168	0.170
r - 852.1	0.353	0.356
852.1 - 1013.9	0.270	0.272
1013.9 - 1128.6	0.155	0.157
1128.6 - 1395.1	0.318	0.321
1395.1 - 1529.6	0.155	0.157
1529.6 - 1813.1	0.341	0.345
1813.1 - 1970.1	0.204	0.206
1970.1 - 2249.3	0.399	0.403
2249.3 - 2325.4	0.118	0.119

Internal transmittance		
λ [nm]	τ_i (s=10mm)	τ_i (s=25mm)
280	-	-
300	-	-
320	-	-
340	-	-
360	-	-
380	0.855	0.676
400	0.967	0.919
420	0.978	0.946
440	0.980	0.951
460	0.985	0.963
480	0.985	0.963
500	0.987	0.968
520	0.988	0.971
540	0.989	0.972
560	0.989	0.972
580	0.988	0.971
600	0.987	0.968
620	0.985	0.963
640	0.983	0.958
660	0.984	0.960
680	0.988	0.971
700	0.991	0.978
750	0.995	0.987
800	0.996	0.990
900	0.995	0.987
1000	0.994	0.985
1050	0.994	0.985
1100	0.994	0.985
1200	0.994	0.985
1300	0.995	0.987
1400	0.992	0.980
1500	0.992	0.980

Refractive indices at laser wavelengths	
λ [nm]	n
350.7	-
356.4	-
488.0	1.52449
514.0	1.52228
520.8	1.52176
530.0	1.52109
568.2	1.51865
632.8	1.51549
647.1	1.51491
694.3	1.51322
890.0	1.50850
1060.0	1.50581

Radiation resistant analogue glass type-

KF107