

n_e 1.629113	v_e 35.31	$n_{F'} - n_{C'}$ 0.017816
n_d 1.624953	v_d 35.57	$n_F - n_C$ 0.017570

Class of bubbles	Viscosity temperature				
	η [Poise]	$10^{14.5}$	10^{13}	10^{10}	10^8
1	t [°C]	-	420	500	-

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
ΔP	+0.05	+0.0001	+0.0002	-0.0002
Δv_e	+0.5	+0.4	+0.4	+0.2
	$i - F$	$g - F$	$F - e$	$F - r$
ΔP	+0.053	+0.0002	+0.0002	-0.0001
Δv_d	+0.5	+0.1	+0.3	+0.2

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
2.75	-	-	0.72	-

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	
5370	2181			IV	
Poisson's ratio μ	Density ρ [$\text{g} \cdot \text{cm}^{-3}$]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		91	99	Group	B
0.231	3.61				

Optical density increment on irradiation		
Initial density D_0 [cm^{-1}]	Radiation dose [R]	Optical density increment ΔD [cm^{-1}]
-	$1 \cdot 10^4$	0.065
-	$1 \cdot 10^5$	0.50

Refractive indices		
λ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.67288
404.66	h	1.65661
435.83	g	1.647660
479.99	F'	1.638430
486.13	F	1.637377
546.07	e	1.629113
587.56	d	1.624953
589.29	D	1.624800
643.85	C'	1.620614
656.27	C	1.619807
706.52	r	1.61697
768.2	-	1.61434
852.1	-	1.61130
1013.9	-	1.60730
1128.6	-	1.60519
1395.1	-	1.60132
1529.6	-	1.59964
1813.1	-	1.59614
1970.1	-	1.59419
2249.3	-	1.59051
2325.4	-	1.58944

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	25.04
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	35.31
$v_d = \frac{n_d - 1}{n_F - n_C}$	35.57
$v_D = \frac{n_D - 1}{n_F - n_C}$	35.56
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	35.71

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	0.913	0.926
h - g	0.5024	0.5094
g - F	0.5772	0.5852
g - F'	0.5181	0.5253
F - e	0.4638	0.4703
F - D	0.7059	0.7158
F' - e	0.5229	0.5303
d - D	0.0086	0.0087
D - C	0.2802	0.2843
e - C'	0.4770	0.4837
e - C	0.5223	0.5296
C' - r	0.204	0.207
C - r	0.159	0.161
r - 852.1	0.318	0.323
852.1 - 1013.9	0.224	0.228
1013.9 - 1128.6	0.118	0.120
1128.6 - 1395.1	0.217	0.220
1395.1 - 1529.6	0.094	0.096
1529.6 - 1813.1	0.196	0.199
1813.1 - 1970.1	0.109	0.111
1970.1 - 2249.3	0.206	0.209
2249.3 - 2325.4	0.060	0.061

Internal transmittance		
λ [nm]	τ_i (s=10mm)	τ_i (s=25mm)
280	-	-
300	-	-
320	-	-
340	-	-
360	0.846	0.658
380	0.933	0.841
400	0.980	0.950
420	0.985	0.963
440	0.988	0.970
460	0.990	0.975
480	0.992	0.980
500	0.993	0.982
520	0.994	0.985
540	0.993	0.982
560	0.992	0.980
580	0.992	0.980
600	0.991	0.978
620	0.992	0.980
640	0.993	0.982
660	0.994	0.985
680	0.995	0.987
700	0.995	0.987
750	0.996	0.990
800	0.996	0.990
900	0.995	0.987
1000	0.995	0.987
1050	0.995	0.987
1100	0.994	0.985
1200	-	-
1300	-	-
1400	-	-
1500	-	-

Refractive indices at laser wavelengths	
λ [nm]	n
350.7	-
356.4	-
488.0	1.63715
514.0	1.63354
520.8	1.63260
530.0	1.63133
568.2	1.62689
632.8	1.62140
647.1	1.62040
694.3	1.61762
890.0	1.61019
1060.0	1.60642

Radiation resistant analogue glass type-

F108