

n_e 1.706497	v_e 49.41	$n_{F'} - n_{C'}$ 0.014298
n_d 1.703125	v_d 49.69	$n_F - n_C$ 0.014150

Class of bubbles	Viscosity temperature				
	η [Poise]	$10^{14.5}$	10^{13}	10^{10}	10^8
3	t [°C]	580	605	655	695

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
ΔP	-0.032	-0.0023	-0.0007	-0.0009
Δv_e	-3.5	-1.6	-1.2	+1.3
	$i - F$	$g - F$	$F - e$	$F - r$
ΔP	-0.032	-0.0023	-0.0005	-0.0007
Δv_d	-3.2	-1.3	-0.9	+1.2

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
1.55	0.57	0.60	0.62	0.64

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		
8580	3315		Group	IV	
Poisson's ratio μ	Density ρ [$\text{g}\cdot\text{cm}^{-3}$]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		84	92	Group	A
0.294	4.16				

Optical density increment on irradiation		
Initial density D_0 [cm^{-1}]	Radiation dose [R]	Optical density increment ΔD [cm^{-1}]
0.061	$1 \cdot 10^4$	0.090
	$1 \cdot 10^5$	0.53

Refractive indices		
λ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.73908
404.66	h	1.72755
435.83	g	1.720921
479.99	F'	1.713847
486.13	F	1.713027
546.07	e	1.706497
587.56	d	1.703125
589.29	D	1.703000
643.85	C'	1.699549
656.27	C	1.698877
706.52	r	1.69649
768.2	-	1.69412
852.1	-	1.69158
1013.9	-	1.68798
1128.6	-	1.68599
1395.1	-	1.68215
1529.6	-	1.68236
1813.1	-	1.67657
1970.1	-	1.67436
2249.3	-	1.67013
2325.4	-	1.66890

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	40.05
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	49.41
$v_d = \frac{n_d - 1}{n_F - n_C}$	49.69
$v_D = \frac{n_D - 1}{n_F - n_C}$	49.68
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	38.1

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	0.806	0.815
h - g	0.4636	0.4685
g - F	0.5521	0.5579
g - F'	0.4947	0.4999
F - e	0.4567	0.4615
F - D	0.7013	0.7086
F' - e	0.5141	0.5195
d - D	0.0087	0.0088
D - C	0.2884	0.2914
e - C'	0.4859	0.4910
e - C	0.5329	0.5385
C' - r	0.214	0.216
C - r	0.167	0.169
r - 852.1	0.343	0.347
852.1 - 1013.9	0.252	0.255
1013.9 - 1128.6	0.139	0.140
1128.6 - 1395.1	0.269	0.272
1395.1 - 1529.6	0.125	0.126
1529.6 - 1813.1	0.265	0.268
1813.1 - 1970.1	0.154	0.156
1970.1 - 2249.3	0.296	0.299
2249.3 - 2325.4	0.086	0.087

Internal transmittance		
λ [nm]	τ_i (s=10mm)	τ_i (s=25mm)
280	-	-
300	-	-
320	-	-
340	-	-
360	-	-
380	-	-
400	0.947	0.873
420	0.968	0.922
440	0.977	0.944
460	0.983	0.958
480	0.988	0.971
500	0.992	0.980
520	0.995	0.987
540	0.996	0.990
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	0.996	0.990
800	0.996	0.990
900	0.995	0.987
1000	0.995	0.987
1050	0.995	0.987
1100	0.996	0.990
1200	0.996	0.990
1300	0.996	0.990
1400	0.996	0.990
1500	0.996	0.990

Refractive indices at laser wavelengths	
λ [nm]	n
350.7	-
356.4	-
488.0	1.71279
514.0	1.70969
520.8	1.70896
530.0	1.70802
568.2	1.70460
632.8	1.70018
647.1	1.69937
694.3	1.69703
890.0	1.69062
1060.0	1.68715

Radiation resistant analogue glass type-