

n_e 1.571039	v_e 62.71	n_{F'} – n_{C'} 0.009106
n_d 1.568881	v_d 62.93	n_F – n_C 0.009040

Class of bubbles	Viscosity temperature				
	η [Poise]	$10^{14.5}$	10^{13}	10^{10}	10^8
2	t [°C]	575	605	670	720

Relative partial dispersion deviations from the 'Normal Line'			
	i – F'	g – F'	F' – e
ΔP	-0.006	-0.0007	+0.0004
Δv_e	-0.7	-0.5	+0.8
	i – F	g – F	F – e
ΔP	-0.005	-0.0004	+0.0005
Δv_d	-0.5	-0.2	+0.9
	F – r		F' – r
	-0.0006		+1.4

Stress optical coefficient B [nm·cm ⁻¹ / kp·cm ⁻²], $\lambda=550\text{nm}$	Thermal conductivity			
	-50°C	0°C	+20°C	+50°C
2.40	0.69	0.75	0.77	0.79

Young's modulus E [kp · mm ⁻²]	Shear modulus G [kp·mm ⁻²]	Coefficient of linear thermal expansion $\alpha_{20\text{t}} \cdot 10^7$ [°C]	Chemical resistance
			Stain resistance
8550	3439		Group III
Poisson's ratio μ	Density ρ [g · cm ⁻³]	+20 ÷ -60°C	+20 ÷ +120°C
0.243	3.06	58	65
		Group A	

Refractive indices	
λ [nm]	n
312.6	-
334.1	-
365.0	i 1.59084
404.66	h 1.58402
435.83	g 1.580001
479.99	F' 1.575661
486.13	F 1.575151
546.07	e 1.571039
587.56	d 1.568881
589.29	D 1.568800
643.85	C' 1.566555
656.27	C 1.566111
706.52	r 1.56452
768.2	- 1.56290
852.1	- 1.56110
1013.9	- 1.55838
1128.6	- 1.55676
1395.1	- 1.55331
1529.6	- 1.55158
1813.1	- 1.54770
1970.1	- 1.54535
2249.3	- 1.54072
2325.4	- 1.53935

Dispersion coefficients	
$\nu_h = \frac{n_h - 1}{n_i - n_g}$	53.9
$\nu_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	62.71
$\nu_d = \frac{n_d - 1}{n_F - n_C}$	62.93
$\nu_D = \frac{n_D - 1}{n_F - n_C}$	62.92
$\nu_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	31.2

Internal transmittance		
λ [nm]	$\tau_i(s=10\text{mm})$	$\tau_i(s=25\text{mm})$
280	-	-
300	-	-
320	-	-
340	-	-
360	-	-
380	0.954	0.890
400	0.985	0.963
420	0.989	0.972
440	0.989	0.972
460	0.992	0.980
480	0.994	0.985
500	0.995	0.987
520	0.996	0.990
540	0.996	0.990
560	0.996	0.990
580	0.995	0.987
600	0.995	0.987
620	0.995	0.987
640	0.994	0.985
660	0.995	0.987
680	0.995	0.987
700	0.996	0.990
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	0.995	0.987
1200	-	-
1300	-	-
1400	-	-
1500	-	-

Refractive indices at laser wavelengths	
λ [nm]	n
350.7	-
356.4	-
488.0	1.57499
514.0	1.57306
520.8	1.57260
530.0	1.57201
568.2	1.56983
632.8	1.56697
647.1	1.56644
694.3	1.56488
890.0	1.56039
1060.0	1.55771

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	0.749	
h – g	0.4414	0.4446
g – F	0.5326	0.5365
g – F'	0.4766	0.4801
F – e	0.4516	0.4549
F – D	0.6975	0.7025
F' – e	0.5075	0.5112
d – D	0.0089	0.0090
D – C	0.2953	0.2975
e – C'	0.4925	0.4961
e – C	0.5412	0.5451
C' – r	0.224	0.225
C – r	0.175	0.176
r – 852.1	0.375	0.378
852.1 – 1013.9	0.299	0.301
1013.9 – 1128.6	0.178	0.179
1128.6 – 1395.1	0.378	0.381
1395.1 – 1529.6	0.190	0.192
1529.6 – 1813.1	0.426	0.429
1813.1 – 1970.1	0.258	0.260
1970.1 – 2249.3	0.508	0.512
2249.3 – 2325.4	0.151	0.152

Radiation resistant analogue glass type-
TK112