

n_e 1.472142	v_e 65.44	$n_{F'} - n_{C'}$ 0.007085
n_d 1.470465	v_d 65.59	$n_F - n_C$ 0.007040

Class of bubbles	Viscosity temperature				
	η [Poise]	$10^{14.5}$	10^{13}	10^{10}	10^8
2	t [°C]	350	410	510	635

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
ΔP	+0.006	+0.0012	+0.0004	-0.0005
Δv_e	+6.6	+7.9	+6.9	+6.6
	$i - F$	$g - F$	$F - e$	$F - r$
ΔP	+0.007	+0.0017	+0.0005	-0.0001
Δv_d	+0.7	+0.9	+0.8	+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
3.80	0.58	0.66	0.70	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	IVI	
4980	2006		Group		
Poisson's ratio μ	Density ρ [$\text{g}\cdot\text{cm}^{-3}$]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance	
		80	82	Group	A
0.241	2.30				

Optical density increment on irradiation		
Initial density D_0 [cm^{-1}]	Radiation dose [R]	Optical density increment ΔD [cm^{-1}]
0.034	$1 \cdot 10^4$	0.015
	$1 \cdot 10^5$	0.09

Refractive indices		
λ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.48736
404.66	h	1.48215
435.83	g	1.479071
479.99	F'	1.475722
486.13	F	1.475328
546.07	e	1.472142
587.56	d	1.470465
589.29	D	1.470400
643.85	C'	1.468637
656.27	C	1.468288
706.52	r	1.46703
768.2	-	1.46574
852.1	-	1.46428
1013.9	-	1.46203
1128.6	-	1.46065
1395.1	-	1.45763
1529.6	-	1.45609
1813.1	-	1.45259
1970.1	-	1.45047
2249.3	-	1.44630
2325.4	-	1.44507

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	58.2
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	66.64
$v_d = \frac{n_d - 1}{n_F - n_C}$	66.83
$v_D = \frac{n_D - 1}{n_F - n_C}$	66.82
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	29.0

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	0.735	0.740
h - g	0.4346	0.4374
g - F	0.5283	0.5316
g - F'	0.4728	0.4757
F - e	0.4497	0.4525
F - D	0.6956	0.7000
F' - e	0.5053	0.5085
d - D	0.0092	0.0092
D - C	0.2981	0.3000
e - C'	0.4947	0.4978
e - C	0.5440	0.5474
C' - r	0.227	0.228
C - r	0.177	0.178
r - 852.1	0.388	0.390
852.1 - 1013.9	0.318	0.320
1013.9 - 1128.6	0.195	0.196
1128.6 - 1395.1	0.426	0.428
1395.1 - 1529.6	0.218	0.220
1529.6 - 1813.1	0.493	0.496
1813.1 - 1970.1	0.299	0.301
1970.1 - 2249.3	0.589	0.592
2249.3 - 2325.4	0.174	0.175

Internal transmittance		
λ [nm]	τ_i (s=10mm)	τ_i (s=25mm)
280	-	-
300	-	-
320	0.478	0.158
340	0.834	0.635
360	0.949	0.877
380	0.954	0.889
400	0.987	0.968
420	0.982	0.956
440	0.983	0.958
460	0.989	0.972
480	0.992	0.980
500	0.994	0.985
520	0.995	0.987
540	0.996	0.990
560	0.995	0.987
580	0.994	0.985
600	0.994	0.985
620	0.993	0.983
640	0.992	0.980
660	0.993	0.983
680	0.994	0.985
700	0.994	0.985
750	0.996	0.990
800	0.997	0.993
900	0.998	0.995
1000	0.998	0.995
1050	0.999	0.998
1100	0.999	0.998
1200	0.999	0.998
1300	0.999	0.998
1400	0.982	0.956
1500	0.990	0.975

Refractive indices at laser wavelengths	
λ [nm]	n
350.7	-
356.4	-
488.0	1.47521
514.0	1.47371
520.8	1.47336
530.0	1.47290
568.2	1.47121
632.8	1.46897
647.1	1.46855
694.3	1.46732
890.0	1.46371
1060.0	1.46146

Radiation resistant analogue glass type-

LK106