

$n_e$ 1.448500	$v_e$ 91.53	$n_{F'} - n_{C'}$ 0.004900
$n_d$ 1.447341	$v_d$ 92.05	$n_F - n_C$ 0.004860

Class of bubbles	Viscosity temperature				
	$\eta$ [Poise]	$10^{14.5}$	$10^{13}$	$10^{10}$	$10^8$
3	$t$ [°C]	365	385	430	470

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
$\Delta P$	0.2316	0.0401	0.0162	0.0228
$\Delta v_e$	24.83	27.04	28.46	31.61
	$i - F$	$g - F$	$F - e$	$F - r$
$\Delta P$	0.258	0.0496	0.0170	0.0167
$\Delta v_d$	25.66	28.15	29.44	30.41

Stress optical coefficient $B$ [ $nm \cdot cm^{-1} / kp \cdot cm^{-2}$ ], $\lambda = 550nm$	Thermal conductivity			
	-50°C	0°C	+20°C	+50°C
0.70	-	-	-	-

Young's modulus $E$ [ $kp \cdot mm^{-2}$ ]	Shear modulus $G$ [ $kp \cdot mm^{-2}$ ]	Coefficient of linear thermal expansion $\alpha_{20/t}$ $10^7$ [°C]	Chemical resistance	
			Stain resistance	Group
7780	2990			IV
Poisson's ratio $\mu$	Density $\rho$ [ $g \cdot cm^{-3}$ ]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance
0.30	3.54	120	147	Group D

Optical density increment on irradiation		
Initial density $D_0$ [ $cm^{-1}$ ]	Radiation dose [R]	Optical density increment $\Delta D$ [ $cm^{-1}$ ]
-	$1 \cdot 10^4$	-
-	$1 \cdot 10^5$	0.59

Refractive indices		
$\lambda$ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.45900
404.66	h	1.45544
435.83	g	1.453310
479.99	F'	1.450984
486.13	F	1.450709
546.07	e	1.448500
587.56	d	1.447341
589.29	D	1.447303
643.85	C'	1.446084
656.27	C	1.445849
706.52	r	1.444984
768.2	-	-
852.1	-	-
1013.9	-	-
1128.6	-	-
1395.1	-	-
1529.6	-	-
1813.1	-	-
1970.1	-	-
2249.3	-	-
2325.4	-	-

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	80.04
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	91.53
$v_d = \frac{n_d - 1}{n_F - n_C}$	92.05
$v_D = \frac{n_D - 1}{n_F - n_C}$	92.04
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	

Relative partial dispersions		
$\Delta n$	$\frac{\Delta n}{n_{F'} - n_{C'}}$	$\frac{\Delta n}{n_F - n_C}$
312.6 - 334.1	-	-
334.1 - i	-	-
i - h	0.7265	0.7325
h - g	0.4347	0.4383
g - F	0.5308	0.5352
g - F'	0.4747	0.4786
F - e	0.4508	0.4545
F - D	0.6951	0.7008
F' - e	0.5069	0.5111
d - D	0.0078	0.0078
D - C	0.2967	0.2992
e - C'	0.4931	0.4971
e - C	0.5410	0.5455
C' - r	0.2224	0.2243
C - r	0.1745	0.1759
r - 852.1	-	-
852.1 - 1013.9	-	-
1013.9 - 1128.6	-	-
1128.6 - 1395.1	-	-
1395.1 - 1529.6	-	-
1529.6 - 1813.1	-	-
1813.1 - 1970.1	-	-
1970.1 - 2249.3	-	-
2249.3 - 2325.4	-	-

Internal transmittance		
$\lambda$ [nm]	$\tau_i$ (s=10mm)	$\tau_i$ (s=25mm)
280	-	-
300	0.217	0.220
320	0.636	0.323
340	0.898	0.764
360	0.985	0.963
380	0.996	0.990
400	0.997	0.993
420	0.997	0.993
440	0.997	0.993
460	0.997	0.993
480	0.998	0.995
500	0.998	0.995
520	0.998	0.995
540	0.998	0.995
560	0.998	0.995
580	0.998	0.995
600	0.998	0.995
620	0.997	0.993
640	0.997	0.993
660	0.997	0.993
680	0.996	0.990
700	0.996	0.990
750	0.995	0.987
800	0.995	0.987
900	0.995	0.987
1000	0.996	0.990
1050	0.996	0.990
1100	0.996	0.990
1200	-	-
1300	-	-
1400	-	-
1500	-	-

Refractive indices at laser wavelengths	
$\lambda$ [nm]	n
350.7	-
356.4	-
488.0	-
514.0	-
520.8	-
530.0	-
568.2	-
632.8	-
647.1	-
694.3	-
890.0	-
1060.0	-

Radiation resistant analogue glass type-