

$n_e$ 1.734294	$v_e$ 28.12	$n_{F'} - n_{C'}$ 0.026111
$n_d$ 1.728222	$v_d$ 28.34	$n_F - n_C$ 0.025700

Class of bubbles	Viscosity temperature				
	$\eta$ [Poise]	$10^{14.5}$	$10^{13}$	$10^{10}$	$10^8$
2	$t$ [°C]	355	395	470	530

Relative partial dispersion deviations from the 'Normal Line'				
	$i - F'$	$g - F'$	$F' - e$	$F' - r$
$\Delta P$	+0.042	+0.0035	+0.0003	+/-0
$\Delta v_e$	+4.5	+2.3	+0.6	+/-0
	$i - F$	$g - F$	$F - e$	$F - r$
$\Delta P$	+0.043	+0.0039	+0.0003	+/-0
$\Delta v_d$	+4.3	+2.2	+0.5	+/-0

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
1.65	-	-	0.58	-

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
5420	2170			III
Poisson's ratio $\mu$	Density $\rho$ [ $\text{g}\cdot\text{cm}^{-3}$ ]	+20 ÷ -60°C	+20 ÷ +120°C	Weather resistance
		93	96	
0.249	4.52			A

Optical density increment on irradiation		
Initial density $D_0$ [ $\text{cm}^{-1}$ ]	Radiation dose [R]	Optical density increment $\Delta D$ [ $\text{cm}^{-1}$ ]
0.066	$1 \cdot 10^4$	0.070
	$1 \cdot 10^5$	0.50

Refractive indices		
$\lambda$ [nm]	n	
312.6	-	-
334.1	-	-
365.0	i	1.80126
404.66	h	1.77566
435.83	g	1.761954
479.99	F'	1.748060
486.13	F	1.746491
546.07	e	1.734294
587.56	d	1.728222
589.29	D	1.728000
643.85	C'	1.72194
656.27	C	1.72079
706.52	r	1.71674
768.2	-	1.71283
852.1	-	1.70878
1013.9	-	1.70339
1128.6	-	1.70066
1395.1	-	1.69594
1529.6	-	1.69397
1813.1	-	1.69015
1970.1	-	1.68807
2249.3	-	1.68426
2325.4	-	1.68318

Dispersion coefficients	
$v_h = \frac{n_h - 1}{n_i - n_g}$	19.7
$v_e = \frac{n_e - 1}{n_{F'} - n_{C'}}$	28.12
$v_d = \frac{n_d - 1}{n_F - n_C}$	28.34
$v_D = \frac{n_D - 1}{n_F - n_C}$	28.33
$v_{1529.6} = \frac{n_{1529.6} - 1}{n_{1013.9} - n_{2249.3}}$	36.3

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	0.980	0.996
h - g	0.5249	0.5333
g - F	0.5922	0.6017
g - F'	0.5321	0.5406
F - e	0.4671	0.4746
F - D	0.7082	0.7195
F' - e	0.5272	0.5357
d - D	0.0085	0.0086
D - C	0.2761	0.2805
e - C'	0.4728	0.4803
e - C	0.5171	0.5254
C' - r	0.199	0.203
C - r	0.155	0.158
r - 852.1	0.305	0.310
852.1 - 1013.9	0.206	0.210
1013.9 - 1128.6	0.105	0.106
1128.6 - 1395.1	0.181	0.184
1395.1 - 1529.6	0.075	0.076
1529.6 - 1813.1	0.146	0.149
1813.1 - 1970.1	0.080	0.081
1970.1 - 2249.3	0.146	0.148
2249.3 - 2325.4	0.041	0.042

Internal transmittance		
$\lambda$ [nm]	$\tau_i$ (s=10mm)	$\tau_i$ (s=25mm)
280	-	-
300	-	-
320	-	-
340	-	-
360	0.247	0.030
380	0.669	0.366
400	0.887	0.741
420	0.952	0.884
440	0.972	0.932
460	0.982	0.956
480	0.987	0.968
500	0.991	0.978
520	0.994	0.985
540	0.995	0.987
560	0.995	0.987
580	0.995	0.987
600	0.994	0.985
620	0.993	0.983
640	0.992	0.980
660	0.992	0.980
680	0.993	0.983
700	0.994	0.985
750	0.998	0.995
800	0.997	0.993
900	0.997	0.993
1000	0.997	0.993
1050	0.997	0.993
1100	0.998	0.995
1200	0.998	0.995
1300	0.998	0.995
1400	0.997	0.993
1500	0.996	0.990

Refractive indices at laser wavelengths	
$\lambda$ [nm]	n
350.7	-
356.4	-
488.0	1.74603
514.0	1.74019
520.8	1.73884
530.0	1.73709
568.2	1.73087
632.8	1.72304
647.1	1.72164
694.3	1.71764
890.0	1.70729
1060.0	1.70222

Radiation resistant analogue glass type-

**TF107**