

TAC4

734-511

$n_d = 1.73400$ $\nu_d = 51.05$ $n_F - n_C = 0.014377$
 $n_e = 1.73742$ $\nu_e = 50.82$ $n_{F'} - n_{C'} = 0.014511$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.71807
n_s	852.11	1.72200
$n_{A'}$	768.19	1.72470
n_r	706.52	1.72718
n_c	656.27	1.72965
$n_{c'}$	643.85	1.73034
n_{633}	632.80	1.73099
n_D	589.29	1.73387
n_d	587.56	1.73400
n_e	546.07	1.73742
n_F	486.13	1.74403
$n_{F'}$	479.99	1.74485
n_g	435.84	1.75193
n_h	404.66	1.75853
n_i	365.01	1.76975

分散式の定数 Constants of dispersion formula	
A_0	2.9425645
A_1	$-1.3266554 \times 10^{-2}$
A_2	2.3559223×10^{-2}
A_3	$-1.6399009 \times 10^{-4}$
A_4	9.2370759×10^{-5}
A_5	$-4.8615982 \times 10^{-6}$

部分分散 Partial dispersions	
$n_C - n_t$	0.011579
$n_d - n_C$	0.004351
$n_F - n_d$	0.010026
$n_g - n_F$	0.007907
$n_{C'} - n_t$	0.012270
$n_e - n_{C'}$	0.007084
$n_{F'} - n_e$	0.007427
$n_g - n_{F'}$	0.007082

部分分散比 Partial dispersion rates			
$P_{C,t}$	0.8054	$P'_{C,t}$	0.8456
$P_{d,C}$	0.3026	$P'_{d,C}$	0.2522
$P_{e,d}$	0.2382	$P'_{e,d}$	0.2360
$P_{F,e}$	0.4592	$P'_{F,e}$	0.5118
$P_{g,F}$	0.5500	$P'_{g,F}$	0.4880
$P_{h,g}$	0.4589	$P'_{h,g}$	0.4546
$P_{i,h}$	0.7805	$P'_{i,h}$	0.7733

異常分散性 Anomalous dispersions	
$\Delta P_{C,t}$	0.0209
$\Delta P_{C,A'}$	0.0052
$\Delta P_{g,d}$	-0.0081
$\Delta P_{g,F}$	-0.0063
$\Delta P_{i,g}$	-0.0501

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	3
D_{NaOH}	1
D_{STPP}	2
D_0	2
D_H	

熱的性質 Thermal Properties	
T_g (°C)	620
T_s (°C)	657
$T_{10^{14.5}}$ (°C)	590
$T_{10^{13}}$ (°C)	612
$T_{10^{7.6}}$ (°C)	690
$\alpha_{-30/+70}$ ($10^{-7}/K$)	52
$\alpha_{100/300}$ ($10^{-7}/K$)	66
λ [W/(m·K)]	0.820
C_p [kJ/(kg·K)]	0.528

機械的性質 Mechanical Properties	
H_K	765 (7)
F_A	60
E (GPa)	113
G (GPa)	43.3
μ	0.299
σ_b (MPa)	

屈折率の温度係数 Thermal coefficient of refractive indices ($\times 10^{-6}/K$)		
(°C)	dn/dT (rel.)	dn/dT (abs.)
-40/-20	6.6	4.2
-20/ 0	6.6	4.6
0/+20	6.6	5.0
+20/+40	6.7	5.4
+40/+60	6.9	5.7
+60/+80	7.1	6.1

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.06

比重 Specific Gravity	
d	4.06

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAC4		S-LAL59		
Code	734-511		734-515		
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.995	0.991
1500	0.995	0.991
1400	0.996	0.991
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.999
1050	0.999	0.999
1000	0.999	0.999
950	0.999	0.999
900	0.999	0.999
850	0.999	0.999
830	0.999	0.999
800	0.999	0.999
780	0.999	0.999
750	0.999	0.999
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.999	0.999
480	0.999	0.997
460	0.998	0.996
440	0.997	0.994
420	0.996	0.992
400	0.993	0.986
390	0.990	0.980
380	0.984	0.968
370	0.973	0.948
360	0.954	0.911
350	0.922	0.850
340	0.877	0.768
330	0.815	0.665
320	0.736	0.542
310	0.631	0.398
300	0.540	0.292
290	0.432	0.187
280	0.292	0.085

着色度 Coloration Code	
$\lambda 80(\lambda 70)/\lambda 5$	370/290

着色度 Coloration of Internal Transmittance (内部透過率)	
$\lambda \tau 80/\lambda \tau 5$	