

LAC7

652-584

$n_d = 1.65160$ $\nu_d = 58.40$ $n_F - n_C = 0.011157$
 $n_e = 1.65426$ $\nu_e = 58.15$ $n_{F'} - n_{C'} = 0.011251$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.63899
n_s	852.11	1.64220
$n_{A'}$	768.19	1.64434
n_r	706.52	1.64628
n_c	656.27	1.64821
$n_{c'}$	643.85	1.64875
n_{633}	632.80	1.64925
n_D	589.29	1.65150
n_d	587.56	1.65160
n_e	546.07	1.65426
n_F	486.13	1.65936
$n_{F'}$	479.99	1.66000
n_g	435.84	1.66538
n_h	404.66	1.67035
n_i	365.01	1.67884

分散式の定数 Constants of dispersion formula	
A_0	2.6876223
A_1	$-1.4375187 \times 10^{-2}$
A_2	1.2545954×10^{-2}
A_3	1.4642295×10^{-3}
A_4	$-1.6982461 \times 10^{-4}$
A_5	8.8048639×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.009219
$n_d - n_c$	0.003392
$n_F - n_d$	0.007765
$n_g - n_F$	0.006020
$n_{c'} - n_t$	0.009758
$n_e - n_{c'}$	0.005517
$n_{F'} - n_e$	0.005734
$n_g - n_{F'}$	0.005387

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8263	$P'_{c,t}$	0.8673
$P_{d,c}$	0.3040	$P'_{d,c}$	0.2536
$P_{e,d}$	0.2388	$P'_{e,d}$	0.2368
$P_{F,e}$	0.4572	$P'_{F,e}$	0.5096
$P_{g,F}$	0.5396	$P'_{g,F}$	0.4788
$P_{h,g}$	0.4449	$P'_{h,g}$	0.4412
$P_{i,h}$	0.7610	$P'_{i,h}$	0.7546

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0075
$\Delta P_{c,A'}$	-0.0011
$\Delta P_{g,d}$	-0.0031
$\Delta P_{g,F}$	-0.0035
$\Delta P_{i,g}$	-0.0185

化学的性質 Chemical Properties	
D_W	4
D_A	5
T_{Blue}	+
D_{NaOH}	3
D_{STPP}	5
D_0	5
D_H	

熱的性質 Thermal Properties	
T_g (°C)	636
T_s (°C)	679
$T_{10^{14.5}}$ (°C)	616
$T_{10^{13}}$ (°C)	632
$T_{10^{7.6}}$ (°C)	717
$\alpha_{-30/+70}$ ($10^{-7}/K$)	69
$\alpha_{100/300}$ ($10^{-7}/K$)	83
λ [W/(m·K)]	0.848
C_p [kJ/(kg·K)]	0.589

機械的性質 Mechanical Properties	
H_K	580 (6)
F_A	150
E (GPa)	98
G (GPa)	38.2
μ	0.285
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	1.9	-0.3
-20/ 0	1.9	0.0
0/+20	1.9	0.2
+20/+40	1.9	0.5
+40/+60	2.0	0.8
+60/+80	2.1	1.0

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.88

比重 Specific Gravity	
d	3.62

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	LAC7	N-LAK7	S-LAL 7		
Code	652-584	652-585	652-585		
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	0.995	0.989
1300	0.998	0.996
1200	0.998	0.996
1100	0.998	0.996
1060	0.998	0.996
1050	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.999	0.996
850	0.998	0.996
830	0.998	0.997
800	0.998	0.997
780	0.998	0.997
750	0.998	0.998
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	0.998	0.996
460	0.997	0.994
440	0.996	0.991
420	0.994	0.989
400	0.991	0.981
390	0.985	0.970
380	0.977	0.954
370	0.957	0.915
360	0.920	0.850
350	0.870	0.750
340	0.790	0.620
330	0.660	0.430
320	0.510	0.260
310	0.350	0.120
300	0.220	0.050
290	0.100	0.010
280		

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	370/300

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