

LACL60

640-602

$n_d = 1.64000$ $\nu_d = 60.20$ $n_F - n_C = 0.010631$
 $n_e = 1.64254$ $\nu_e = 60.00$ $n_{F'} - n_{C'} = 0.010709$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.62759
n_s	852.11	1.63083
$n_{A'}$	768.19	1.63296
n_r	706.52	1.63486
n_c	656.27	1.63674
$n_{c'}$	643.85	1.63726
n_{633}	632.80	1.63775
n_D	589.29	1.63990
n_d	587.56	1.64000
n_e	546.07	1.64254
n_F	486.13	1.64737
$n_{F'}$	479.99	1.64797
n_g	435.84	1.65307
n_h	404.66	1.65777
n_i	365.01	1.66577

分散式の定数 Constants of dispersion formula	
A_0	2.6490884
A_1	$-1.4159869 \times 10^{-2}$
A_2	1.4451135×10^{-2}
A_3	5.2707873×10^{-4}
A_4	$-4.3447523 \times 10^{-5}$
A_5	2.4612971×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.009149
$n_d - n_c$	0.003261
$n_F - n_d$	0.007370
$n_g - n_F$	0.005698
$n_{c'} - n_t$	0.009670
$n_e - n_{c'}$	0.005278
$n_{F'} - n_e$	0.005431
$n_g - n_{F'}$	0.005099

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8606	$P'_{c,t}$	0.9030
$P_{d,c}$	0.3067	$P'_{d,c}$	0.2559
$P_{e,d}$	0.2387	$P'_{e,d}$	0.2370
$P_{F,e}$	0.4545	$P'_{F,e}$	0.5071
$P_{g,F}$	0.5360	$P'_{g,F}$	0.4761
$P_{h,g}$	0.4425	$P'_{h,g}$	0.4393
$P_{i,h}$	0.7527	$P'_{i,h}$	0.7472

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0334
$\Delta P_{c,A'}$	0.0059
$\Delta P_{g,d}$	-0.0053
$\Delta P_{g,F}$	-0.0039
$\Delta P_{i,g}$	-0.0133

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

熱的性質 Thermal Properties	
T_g (°C)	656
T_s (°C)	691
$T_{10^{14.5}}$ (°C)	630
$T_{10^{13}}$ (°C)	649
$T_{10^{7.6}}$ (°C)	722
$\alpha_{-30/+70}$ ($10^{-7}/K$)	60
$\alpha_{100/300}$ ($10^{-7}/K$)	78
λ [W/(m·K)]	0.972
C_p [kJ/(kg·K)]	0.696

機械的性質 Mechanical Properties	
H_K	665 (7)
F_A	90
E (GPa)	106
G (GPa)	41.3
μ	0.282
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	3.1	0.9
-20/ 0	3.0	1.1
0/+20	3.1	1.4
+20/+40	3.1	1.7
+40/+60	3.3	2.0
+60/+80	3.5	2.3

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

比重 Specific Gravity	
d	3.02

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.993
1500	0.996	0.992
1400	0.995	0.991
1300	0.999	0.998
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.999
830	0.999	0.998
800	0.999	0.998
780	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.999	0.997
600	0.998	0.997
550	0.999	0.998
500	0.999	0.997
480	0.998	0.996
460	0.997	0.994
440	0.996	0.993
420	0.995	0.990
400	0.993	0.985
390	0.990	0.979
380	0.984	0.969
370	0.976	0.952
360	0.960	0.922
350	0.940	0.870
340	0.900	0.800
330	0.840	0.700
320	0.760	0.570
310	0.650	0.430
300	0.540	0.290
290	0.410	0.170
280	0.280	0.080

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	350/280

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

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	LACL60	N-LAK21	S-BSM81		
Code	640-602	640-601	640-601		
作成 201104					