

LAC13

694-533

$n_d = 1.69350$ $\nu_d = 53.34$ $n_F - n_C = 0.013001$
 $n_e = 1.69660$ $\nu_e = 53.11$ $n_{F'} - n_{C'} = 0.013115$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.67895
n_s	852.11	1.68258
$n_{A'}$	768.19	1.68505
n_r	706.52	1.68731
n_c	656.27	1.68955
$n_{c'}$	643.85	1.69018
n_{633}	632.80	1.69077
n_D	589.29	1.69339
n_d	587.56	1.69350
n_e	546.07	1.69660
n_F	486.13	1.70256
$n_{F'}$	479.99	1.70330
n_g	435.84	1.70965
n_h	404.66	1.71555
n_i	365.01	1.72565

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.994	0.988
1500	0.993	0.986
1400	0.991	0.982
1300	0.999	0.998
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	0.998
600	0.999	0.998
550	0.999	0.999
500	0.998	0.997
480	0.998	0.996
460	0.998	0.995
440	0.997	0.993
420	0.995	0.990
400	0.990	0.980
390	0.985	0.970
380	0.976	0.952
370	0.960	0.921
360	0.930	0.870
350	0.890	0.790
340	0.820	0.670
330	0.720	0.520
320	0.590	0.340
310	0.390	0.160
300	0.160	0.030
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	2.8125316
A_1	$-1.2915271 \times 10^{-2}$
A_2	1.9960339×10^{-2}
A_3	1.9877888×10^{-4}
A_4	1.7647061×10^{-5}
A_5	$-4.4767632 \times 10^{-7}$

熱的性質 Thermal Properties	
T_g (°C)	626
T_s (°C)	665
$T_{10^{14.5}}$ (°C)	603
$T_{10^{13}}$ (°C)	620
$T_{10^{7.6}}$ (°C)	701
$\alpha_{-30/+70}$ ($10^{-7}/K$)	53
$\alpha_{100/300}$ ($10^{-7}/K$)	68
λ [W/(m·K)]	0.855
C_p [kJ/(kg·K)]	0.574

部分分散 Partial dispersions	
$n_c - n_t$	0.010605
$n_d - n_c$	0.003950
$n_F - n_d$	0.009051
$n_g - n_F$	0.007093
$n_{c'} - n_t$	0.011233
$n_e - n_{c'}$	0.006421
$n_{F'} - n_e$	0.006694
$n_g - n_{F'}$	0.006351

機械的性質 Mechanical Properties	
H_K	700 (7)
F_A	70
E (GPa)	105
G (GPa)	45.0
μ	0.269
σ_b (MPa)	

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8157	$P'_{c,t}$	0.8565
$P_{d,c}$	0.3038	$P'_{d,c}$	0.2533
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2363
$P_{F,e}$	0.4578	$P'_{F,e}$	0.5104
$P_{g,F}$	0.5456	$P'_{g,F}$	0.4843
$P_{h,g}$	0.4541	$P'_{h,g}$	0.4502
$P_{i,h}$	0.7766	$P'_{i,h}$	0.7699

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	5.3	3.0
-20/ 0	5.3	3.3
0/+20	5.3	3.7
+20/+40	5.4	4.0
+40/+60	5.5	4.3
+60/+80	5.7	4.5

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0206
$\Delta P_{c,A'}$	0.0050
$\Delta P_{g,d}$	-0.0084
$\Delta P_{g,F}$	-0.0066
$\Delta P_{i,g}$	-0.0384

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.08

比重 Specific Gravity	
d	3.56

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	
$\lambda \tau 80 / \lambda \tau 5$	

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	LAC13		S-LAL13		
Code	694-533		694-532		
作成 201104					