

LAC14

697-555

$n_d = 1.69680$ $\nu_d = 55.46$ $n_F - n_C = 0.012564$
 $n_e = 1.69980$ $\nu_e = 55.25$ $n_{F'} - n_{C'} = 0.012667$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.68250
n_s	852.11	1.68612
$n_{A'}$	768.19	1.68856
n_r	706.52	1.69078
n_c	656.27	1.69297
$n_{c'}$	643.85	1.69358
n_{633}	632.80	1.69415
n_D	589.29	1.69669
n_d	587.56	1.69680
n_e	546.07	1.69980
n_F	486.13	1.70553
$n_{F'}$	479.99	1.70625
n_g	435.84	1.71235
n_h	404.66	1.71801
n_i	365.01	1.72765

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	+
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	0.997	0.994
1500	0.997	0.993
1400	0.997	0.993
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	0.998
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	0.999
460	0.999	0.997
440	0.998	0.996
420	0.997	0.994
400	0.995	0.989
390	0.992	0.983
380	0.988	0.976
370	0.981	0.962
360	0.972	0.945
350	0.938	0.880
340	0.912	0.833
330	0.864	0.746
320	0.804	0.646
310	0.721	0.520
300	0.627	0.393
290	0.514	0.265
280	0.375	0.141

分散式の定数 Constants of dispersion formula	
A_0	2.8255229
A_1	$-1.3632902 \times 10^{-2}$
A_2	1.9791402×10^{-2}
A_3	1.5032564×10^{-5}
A_4	4.0761368×10^{-5}
A_5	$-1.7527267 \times 10^{-6}$

熱的性質 Thermal Properties	
T_g (°C)	637
T_s (°C)	672
$T_{10^{14.5}}$ (°C)	613
$T_{10^{13}}$ (°C)	633
$T_{10^{7.6}}$ (°C)	705
$\alpha_{-30/+70}$ ($10^{-7}/K$)	59
$\alpha_{100/300}$ ($10^{-7}/K$)	72
λ [W/(m·K)]	0.979
C_p [kJ/(kg·K)]	0.632

部分分散 Partial dispersions	
$n_c - n_t$	0.010470
$n_d - n_c$	0.003833
$n_F - n_d$	0.008731
$n_g - n_F$	0.006816
$n_{c'} - n_t$	0.011081
$n_e - n_{c'}$	0.006218
$n_{F'} - n_e$	0.006449
$n_g - n_{F'}$	0.006102

機械的性質 Mechanical Properties	
H_K	690 (7)
F_A	80
E (GPa)	111
G (GPa)	42.9
μ	0.293
σ_b (MPa)	

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8333	$P'_{c,t}$	0.8748
$P_{d,c}$	0.3051	$P'_{d,c}$	0.2544
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2365
$P_{F,e}$	0.4565	$P'_{F,e}$	0.5091
$P_{g,F}$	0.5425	$P'_{g,F}$	0.4817
$P_{h,g}$	0.4506	$P'_{h,g}$	0.4469
$P_{i,h}$	0.7672	$P'_{i,h}$	0.7610

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	3.8	1.6
-20/0	3.8	1.8
0/+20	3.8	2.1
+20/+40	3.9	2.4
+40/+60	4.0	2.7
+60/+80	4.2	3.0

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0283
$\Delta P_{c,A'}$	0.0066
$\Delta P_{g,d}$	-0.0079
$\Delta P_{g,F}$	-0.0059
$\Delta P_{i,g}$	-0.0327

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.81

比重 Specific Gravity	
d	3.67

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	LAC14	N-LAK14	S-LAL14	E-LAK14	H-LAK51
Code	697-555	697-554	697-555	697-555	697-555
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