

LAF2

744-449

$n_d = 1.74400$ $\nu_d = 44.90$ $n_F - n_C = 0.016570$
 $n_e = 1.74794$ $\nu_e = 44.63$ $n_{F'} - n_{C'} = 0.016760$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.72670
n_s	852.11	1.73070
$n_{A'}$	768.19	1.73359
n_r	706.52	1.73630
n_c	656.27	1.73906
$n_{c'}$	643.85	1.73984
n_{633}	632.80	1.74057
n_D	589.29	1.74386
n_d	587.56	1.74400
n_e	546.07	1.74794
n_F	486.13	1.75563
$n_{F'}$	479.99	1.75660
n_g	435.84	1.76496
n_h	404.66	1.77285
n_i	365.01	1.78660

分散式の定数 Constants of dispersion formula	
A_0	2.9657374
A_1	$-9.6571624 \times 10^{-3}$
A_2	2.6024525×10^{-2}
A_3	3.6684641×10^{-4}
A_4	2.8205551×10^{-5}
A_5	$-1.3739929 \times 10^{-7}$

部分分散 Partial dispersions	
$n_c - n_t$	0.012360
$n_d - n_c$	0.004941
$n_F - n_d$	0.011629
$n_g - n_F$	0.009329
$n_{c'} - n_t$	0.013138
$n_e - n_{c'}$	0.008104
$n_{F'} - n_e$	0.008656
$n_g - n_{F'}$	0.008361

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7459	$P'_{c,t}$	0.7839
$P_{d,c}$	0.2982	$P'_{d,c}$	0.2484
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2351
$P_{F,e}$	0.4640	$P'_{F,e}$	0.5165
$P_{g,F}$	0.5630	$P'_{g,F}$	0.4989
$P_{h,g}$	0.4762	$P'_{h,g}$	0.4708
$P_{i,h}$	0.8298	$P'_{i,h}$	0.8203

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	-0.0098
$\Delta P_{c,A'}$	-0.0011
$\Delta P_{g,d}$	-0.0046
$\Delta P_{g,F}$	-0.0044
$\Delta P_{i,g}$	-0.0379

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

熱的性質 Thermal Properties	
T_g (°C)	648
T_s (°C)	719
$T_{10^{14.5}}$ (°C)	631
$T_{10^{13}}$ (°C)	643
$T_{10^{7.6}}$ (°C)	771
$\alpha_{-30/+70}$ ($10^{-7}/K$)	72
$\alpha_{100/300}$ ($10^{-7}/K$)	87
λ [W/(m·K)]	0.812
C_p [kJ/(kg·K)]	0.452

機械的性質 Mechanical Properties	
H_K	585 (6)
F_A	160
E (GPa)	97
G (GPa)	37.2
μ	0.288
σ_b (MPa)	78

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	2.7	0.4
-20/ 0	2.7	0.7
0/+20	2.8	1.1
+20/+40	2.9	1.3
+40/+60	2.9	1.6
+60/+80	3.0	1.8

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

比重 Specific Gravity	
d	4.39

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	LAF2	N-LAF2	S-LAM2	E-LAF2	H-LAF3
Code	744-449	744-449	744-448	744-448	744-449
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.997
1500	0.998	0.997
1400	0.999	0.998
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	0.998
700	0.999	0.997
650	0.998	0.996
600	0.999	0.997
550	0.999	0.999
500	0.998	0.996
480	0.997	0.994
460	0.995	0.990
440	0.994	0.987
420	0.993	0.985
400	0.988	0.977
390	0.982	0.965
380	0.969	0.940
370	0.946	0.895
360	0.895	0.801
350	0.809	0.655
340	0.671	0.450
330	0.468	0.219
320	0.228	0.052
310		
300		
290		
280		
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	380/320	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$	360/320	