

M-LAF81

731-405

$n_d = 1.73077$ $\nu_d = 40.50$ $n_F - n_C = 0.018043$
 $n_e = 1.73505$ $\nu_e = 40.25$ $n_{F'} - n_{C'} = 0.018263$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.71190
n_s	852.11	1.71633
$n_{A'}$	768.19	1.71947
n_r	706.52	1.72242
n_c	656.27	1.72541
$n_{c'}$	643.85	1.72625
n_{633}	632.80	1.72704
n_D	589.29	1.73061
n_d	587.56	1.73077
n_e	546.07	1.73505
n_F	486.13	1.74345
$n_{F'}$	479.99	1.74452
n_g	435.84	1.75376
n_h	404.66	1.76261
n_i	365.01	1.77837

化学的性質 Chemical Properties	
D_W	1
D_A	3
T_{Blue}	5
D_{NaOH}	1
D_{STPP}	2
D_0	5
D_H	3

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.995
1500	0.997	0.994
1400	0.995	0.989
1300	0.998	0.995
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	0.999
600	0.999	0.998
550	0.998	0.997
500	0.996	0.993
480	0.994	0.988
460	0.990	0.980
440	0.984	0.968
420	0.976	0.952
400	0.956	0.914
390	0.936	0.876
380	0.909	0.826
370	0.873	0.763
360	0.811	0.658
350	0.668	0.446
340	0.408	0.167
330	0.136	0.019
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	2.9167886
A_1	$-1.2398199 \times 10^{-2}$
A_2	2.6675237×10^{-2}
A_3	6.5190504×10^{-4}
A_4	4.6956175×10^{-6}
A_5	2.6910540×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	493
T_s (°C)	538
$T_{10^{14.5}}$ (°C)	469
$T_{10^{13}}$ (°C)	487
$T_{10^{7.6}}$ (°C)	577
$\alpha_{-30/+70}$ ($10^{-7}/K$)	89
$\alpha_{100/300}$ ($10^{-7}/K$)	113
λ [W/(m·K)]	1.188
C_p [kJ/(kg·K)]	0.795

部分分散 Partial dispersions	
$n_c - n_t$	0.013507
$n_d - n_c$	0.005356
$n_F - n_d$	0.012687
$n_g - n_F$	0.010309
$n_{c'} - n_t$	0.014350
$n_e - n_{c'}$	0.008797
$n_{F'} - n_e$	0.009466
$n_g - n_{F'}$	0.009246

機械的性質 Mechanical Properties	
H_K	545 (5)
F_A	120
E (GPa)	111
G (GPa)	43.1
μ	0.287
σ_b (MPa)	102

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7486	$P'_{c,t}$	0.7857
$P_{d,c}$	0.2968	$P'_{d,c}$	0.2471
$P_{e,d}$	0.2374	$P'_{e,d}$	0.2346
$P_{F,e}$	0.4657	$P'_{F,e}$	0.5183
$P_{g,F}$	0.5714	$P'_{g,F}$	0.5063
$P_{h,g}$	0.4903	$P'_{h,g}$	0.4844
$P_{i,h}$	0.8737	$P'_{i,h}$	0.8632

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	2.5	0.2
-20/ 0	2.5	0.5
0/+20	2.5	0.8
+20/+40	2.5	1.0
+40/+60	2.5	1.2
+60/+80	2.6	1.4

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.03

比重 Specific Gravity	
d	3.22

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	405/335

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	395/334

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0135
$\Delta P_{c,A'}$	0.0029
$\Delta P_{g,d}$	-0.0050
$\Delta P_{g,F}$	-0.0040
$\Delta P_{i,g}$	-0.0188

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-LAF81		L-LAM69		D-LAF79
Code	731-405		731-405		731-405
作成 201104					