

M-LAC14

697-555

$n_d = 1.69680$ $\nu_d = 55.46$ $n_F - n_C = 0.012564$
 $n_e = 1.69980$ $\nu_e = 55.24$ $n_{F'} - n_{C'} = 0.012668$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.68250
n_s	852.11	1.68614
$n_{A'}$	768.19	1.68858
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	1.72769

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	5
D_{NaOH}	2
D_{STPP}	2
D_0	2
D_H	1

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.999	0.998
1500	0.999	0.998
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	0.999
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.999	0.998
480	0.998	0.997
460	0.997	0.994
440	0.995	0.990
420	0.993	0.987
400	0.989	0.978
390	0.985	0.970
380	0.978	0.956
370	0.964	0.930
360	0.941	0.886
350	0.898	0.807
340	0.836	0.699
330	0.748	0.560
320	0.637	0.406
310	0.484	0.234
300	0.387	0.150
290	0.280	0.078
280	0.171	0.029

分散式の定数 Constants of dispersion formula	
A_0	2.8278386
A_1	$-1.4773939 \times 10^{-2}$
A_2	1.8211733×10^{-2}
A_3	4.9311964×10^{-4}
A_4	$-2.5486886 \times 10^{-5}$
A_5	1.6795487×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	588
T_s (°C)	629
$T_{10^{14.5}}$ (°C)	566
$T_{10^{13}}$ (°C)	582
$T_{10^{7.6}}$ (°C)	672
$\alpha_{-30/+70}$ ($10^{-7}/K$)	65
$\alpha_{100/300}$ ($10^{-7}/K$)	80
λ [W/(m·K)]	0.915
C_p [kJ/(kg·K)]	0.623

部分分散 Partial dispersions	
$n_c - n_t$	0.010470
$n_d - n_c$	0.003829
$n_F - n_d$	0.008735
$n_g - n_F$	0.006816
$n_{c'} - n_t$	0.011080
$n_e - n_{c'}$	0.006825
$n_{F'} - n_e$	0.006453
$n_g - n_{F'}$	0.006102

機械的性質 Mechanical Properties	
H_K	640 (60)
F_A	80
E (GPa)	118
G (GPa)	45.9
μ	0.284
σ_b (MPa)	99

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8333	$P'_{c,t}$	0.8746
$P_{d,c}$	0.3048	$P'_{d,c}$	0.2541
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2365
$P_{F,e}$	0.4568	$P'_{F,e}$	0.5094
$P_{g,F}$	0.5425	$P'_{g,F}$	0.4817
$P_{h,g}$	0.4504	$P'_{h,g}$	0.4467
$P_{i,h}$	0.7701	$P'_{i,h}$	0.7638

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	3.7	1.4
-20/ 0	3.7	1.7
0/+20	3.7	2.0
+20/+40	3.8	2.3
+40/+60	3.9	2.6
+60/+80	4.1	2.9

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.74

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0283
$\Delta P_{c,A'}$	0.0056
$\Delta P_{g,d}$	-0.0077
$\Delta P_{g,F}$	-0.0059
$\Delta P_{i,g}$	-0.0298

比重 Specific Gravity	
d	3.70

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	365/285

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	349/285

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-LAC14				
Code	697-555				
作成 201104					