

M-TAC80

729-540

$n_d = 1.72903$ $\nu_d = 54.04$ $n_F - n_C = 0.013490$
 $n_e = 1.73225$ $\nu_e = 53.81$ $n_{F'} - n_{C'} = 0.013609$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.71386
n_s	852.11	1.71769
$n_{A'}$	768.19	1.72027
n_r	706.52	1.72261
n_c	656.27	1.72494
$n_{c'}$	643.85	1.72559
n_{633}	632.80	1.72620
n_D	589.29	1.72891
n_d	587.56	1.72903
n_e	546.07	1.73225
n_F	486.13	1.73843
$n_{F'}$	479.99	1.73920
n_g	435.84	1.74577
n_h	404.66	1.75187
n_i	365.01	1.76232

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	2
D_{NaOH}	1
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	0.999
1500	0.999	0.999
1400	0.999	0.997
1300	0.999	0.999
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.997
1050	0.999	0.998
1000	0.999	0.997
950	0.998	0.997
900	0.998	0.997
850	0.998	0.996
830	0.998	0.996
800	0.999	0.998
780	0.999	0.999
750	0.999	0.998
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	0.997
460	0.998	0.995
440	0.996	0.992
420	0.994	0.989
400	0.989	0.979
390	0.984	0.968
380	0.975	0.950
370	0.959	0.919
360	0.930	0.865
350	0.884	0.782
340	0.819	0.671
330	0.732	0.536
320	0.606	0.367
310	0.444	0.197
300	0.369	0.136
290	0.283	0.080
280	0.160	0.025

分散式の定数 Constants of dispersion formula	
A_0	2.9351948
A_1	$-1.6193458 \times 10^{-2}$
A_2	1.8392287×10^{-2}
A_3	1.0086167×10^{-3}
A_4	$-8.7565474 \times 10^{-5}$
A_5	4.6921333×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	619
T_s (°C)	655
$T_{10^{14.5}}$ (°C)	596
$T_{10^{13}}$ (°C)	610
$T_{10^{7.6}}$ (°C)	691
$\alpha_{-30/+70}$ ($10^{-7}/K$)	61
$\alpha_{100/300}$ ($10^{-7}/K$)	74
λ [W/(m·K)]	0.897
C_p [kJ/(kg·K)]	0.537

部分分散 Partial dispersions	
$n_c - n_t$	0.011077
$n_d - n_c$	0.004095
$n_F - n_d$	0.009395
$n_g - n_F$	0.007347
$n_{c'} - n_t$	0.011728
$n_e - n_{c'}$	0.006660
$n_{F'} - n_e$	0.006949
$n_g - n_{F'}$	0.006577

機械的性質 Mechanical Properties	
H_K	665 (7)
F_A	70
E (GPa)	121
G (GPa)	47.1
μ	0.290
σ_b (MPa)	113

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8211	$P'_{c,t}$	0.8618
$P_{d,c}$	0.3036	$P'_{d,c}$	0.2531
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2363
$P_{F,e}$	0.4580	$P'_{F,e}$	0.5106
$P_{g,F}$	0.5446	$P'_{g,F}$	0.4833
$P_{h,g}$	0.4523	$P'_{h,g}$	0.4483
$P_{i,h}$	0.7744	$P'_{i,h}$	0.7676

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	4.0	1.7
-20/ 0	4.0	2.1
0/+20	4.1	2.4
+20/+40	4.2	2.7
+40/+60	4.3	3.0
+60/+80	4.5	3.3

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.60

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0227
$\Delta P_{c,A'}$	0.0037
$\Delta P_{g,d}$	-0.0075
$\Delta P_{g,F}$	-0.0063
$\Delta P_{i,g}$	-0.0364

比重 Specific Gravity	
d	4.28

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	375/285
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	352/285

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-TAC80				
Code	729-540				
作成 201104					