

M-TAF101

768-492

$n_d = 1.76802$ $\nu_d = 49.24$ $n_F - n_C = 0.015597$
 $n_e = 1.77173$ $\nu_e = 49.00$ $n_{F'} - n_{C'} = 0.015749$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.75101
n_s	852.11	1.75514
$n_{A'}$	768.19	1.75800
n_r	706.52	1.76065
n_c	656.27	1.76331
$n_{c'}$	643.85	1.76406
n_{633}	632.80	1.76475
n_D	589.29	1.76788
n_d	587.56	1.76802
n_e	546.07	1.77173
n_F	486.13	1.77891
$n_{F'}$	479.99	1.77980
n_g	435.84	1.78751
n_h	404.66	1.79471
n_i	365.01	1.80712

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.997
1500	0.998	0.996
1400	0.999	0.998
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.998
1060	0.999	0.999
1050	0.999	0.998
1000	0.999	0.997
950	0.998	0.997
900	0.998	0.997
850	0.998	0.997
830	0.999	0.997
800	0.999	0.998
780	0.999	0.998
750	0.998	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	0.998
460	0.997	0.994
440	0.995	0.989
420	0.992	0.984
400	0.987	0.974
390	0.981	0.963
380	0.971	0.944
370	0.955	0.912
360	0.926	0.858
350	0.882	0.777
340	0.818	0.669
330	0.734	0.539
320	0.612	0.375
310	0.454	0.206
300	0.371	0.138
290	0.269	0.072
280	0.136	0.018

着色度 Coloration Code	
λ 80 (λ 70) / λ 5	380/290
着色度 (内部透過率) Coloration of Internal Transmittance	
λ τ 80 / λ τ 5	352/287

分散式の定数 Constants of dispersion formula	
A_0	3.0561500
A_1	$-1.3847100 \times 10^{-2}$
A_2	2.4311260×10^{-2}
A_3	4.9800270×10^{-4}
A_4	$-7.3186760 \times 10^{-6}$
A_5	1.2404100×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	607
T_s (°C)	643
$T_{10^{14.5}}$ (°C)	583
$T_{10^{13}}$ (°C)	600
$T_{10^{7.6}}$ (°C)	681
$\alpha_{-30/+70}$ ($10^{-7}/K$)	59
$\alpha_{100/300}$ ($10^{-7}/K$)	74
λ [W/(m·K)]	0.783
C_p [kJ/(kg·K)]	0.446

部分分散 Partial dispersions	
$n_c - n_t$	0.012304
$n_d - n_c$	0.004705
$n_F - n_d$	0.010892
$n_g - n_F$	0.008602
$n_{c'} - n_t$	0.013049
$n_e - n_{c'}$	0.007676
$n_{F'} - n_e$	0.008073
$n_g - n_{F'}$	0.007705

機械的性質 Mechanical Properties	
H_K	749 (7)
F_A	60
E (GPa)	121
G (GPa)	46.4
μ	0.298
σ_b (MPa)	107

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7889	$P'_{c,t}$	0.8286
$P_{d,c}$	0.3017	$P'_{d,c}$	0.2514
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2360
$P_{F,e}$	0.4601	$P'_{F,e}$	0.5126
$P_{g,F}$	0.5515	$P'_{g,F}$	0.4892
$P_{h,g}$	0.4616	$P'_{h,g}$	0.4571
$P_{i,h}$	0.7956	$P'_{i,h}$	0.7879

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	5.7	3.3
-20/ 0	5.7	3.7
0/+20	5.8	4.0
+20/+40	5.9	4.4
+40/+60	6.1	4.7
+60/+80	6.2	5.0

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.80

比重 Specific Gravity	
d	4.56

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0129
$\Delta P_{c,A'}$	0.0036
$\Delta P_{g,d}$	-0.0097
$\Delta P_{g,F}$	-0.0081
$\Delta P_{i,g}$	-0.0483

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-TAF101				D-LAF050
Code	768-492				768-492
作成 201104					