

M-TAFD305

851-401

$n_d = 1.85135$ $\nu_d = 40.10$ $n_F - n_C = 0.021229$
 $n_e = 1.85639$ $\nu_e = 39.85$ $n_{F'} - n_{C'} = 0.021488$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.82942
n_s	852.11	1.83447
$n_{A'}$	768.19	1.83812
n_r	706.52	1.84155
n_c	656.27	1.84505
$n_{c'}$	643.85	1.84604
n_{633}	632.80	1.84697
n_D	589.29	1.85116
n_d	587.56	1.85135
n_e	546.07	1.85639
n_F	486.13	1.86628
$n_{F'}$	479.99	1.86753
n_g	435.84	1.87837
n_h	404.66	1.88868
n_i	365.01	1.90691

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	1

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.995
1500	0.998	0.996
1400	0.998	0.996
1300	0.998	0.996
1200	0.997	0.995
1100	0.997	0.994
1060	0.997	0.994
1050	0.997	0.994
1000	0.997	0.993
950	0.997	0.994
900	0.997	0.993
850	0.997	0.994
830	0.998	0.996
800	0.997	0.994
780	0.997	0.995
750	0.998	0.995
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.998	0.995
480	0.995	0.990
460	0.992	0.984
440	0.988	0.976
420	0.980	0.961
400	0.963	0.927
390	0.943	0.888
380	0.906	0.820
370	0.835	0.698
360	0.694	0.481
350	0.456	0.208
340	0.198	0.039
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
λ 80 (λ 70) / λ 5	(385) / 340
着色度 (内部透過率) Coloration of Internal Transmittance	
λ τ 80 / λ τ 5	378 / 341

分散式の定数 Constants of dispersion formula	
A_0	3.3271840
A_1	$-1.3432420 \times 10^{-2}$
A_2	3.3398000×10^{-2}
A_3	1.0060470×10^{-3}
A_4	$-2.1369080 \times 10^{-5}$
A_5	3.9725610×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	612
T_s (°C)	652
$T_{10^{14.5}}$ (°C)	588
$T_{10^{13}}$ (°C)	606
$T_{10^{7.6}}$ (°C)	693
$\alpha_{-30/+70}$ ($10^{-7}/K$)	63
$\alpha_{100/300}$ ($10^{-7}/K$)	78
λ [W/(m·K)]	0.738
C_p [kJ/(kg·K)]	0.401

部分分散 Partial dispersions	
$n_c - n_t$	0.015627
$n_d - n_c$	0.006297
$n_F - n_d$	0.014932
$n_g - n_F$	0.012087
$n_{c'} - n_t$	0.016617
$n_e - n_{c'}$	0.010350
$n_{F'} - n_e$	0.011138
$n_g - n_{F'}$	0.010838

機械的性質 Mechanical Properties	
H_K	620 (6)
F_A	60
E (GPa)	116
G (GPa)	44.5
μ	0.308
σ_b (MPa)	109

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7361	$P'_{c,t}$	0.7733
$P_{d,c}$	0.2966	$P'_{d,c}$	0.2470
$P_{e,d}$	0.2376	$P'_{e,d}$	0.2347
$P_{F,e}$	0.4658	$P'_{F,e}$	0.5183
$P_{g,F}$	0.5694	$P'_{g,F}$	0.5044
$P_{h,g}$	0.4859	$P'_{h,g}$	0.4800
$P_{i,h}$	0.8588	$P'_{i,h}$	0.8484

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	6.9	4.4
-20/ 0	7.1	5.0
0/+20	7.3	5.5
+20/+40	7.5	5.9
+40/+60	7.7	6.2
+60/+80	7.8	6.6

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.86

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0028
$\Delta P_{c,A'}$	0.0012
$\Delta P_{g,d}$	-0.0076
$\Delta P_{g,F}$	-0.0067
$\Delta P_{i,g}$	-0.0417

比重 Specific Gravity	
d	5.25

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-TAFD305		(L-LAH85V)	Q-LASFH18S	(D-ZLAF85L)
Code	851-401		854-404	851-401	854-406
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