

TAFD5F

835-427

$n_d = 1.83481$ $\nu_d = 42.72$ $n_F - n_C = 0.019540$
 $n_e = 1.83945$ $\nu_e = 42.47$ $n_{F'} - n_{C'} = 0.019766$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.81423
n_s	852.11	1.81908
$n_{A'}$	768.19	1.82251
n_r	706.52	1.82573
n_c	656.27	1.82898
$n_{c'}$	643.85	1.82990
n_{633}	632.80	1.83076
n_D	589.29	1.83463
n_d	587.56	1.83481
n_e	546.07	1.83945
n_F	486.13	1.84852
$n_{F'}$	479.99	1.84967
n_g	435.84	1.85956
n_h	404.66	1.86894
n_i	365.01	1.88540

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.994
1500	0.997	0.994
1400	0.998	0.995
1300	0.999	0.998
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.997
900	0.999	0.997
850	0.999	0.997
830	0.999	0.996
800	0.999	0.998
780	0.999	0.998
750	0.999	0.998
700	0.998	0.997
650	0.999	0.998
600	0.999	0.999
550	0.999	0.999
500	0.999	0.998
480	0.996	0.993
460	0.994	0.988
440	0.994	0.987
420	0.989	0.978
400	0.982	0.965
390	0.971	0.944
380	0.960	0.922
370	0.937	0.877
360	0.892	0.796
350	0.821	0.675
340	0.678	0.459
330	0.434	0.189
320	0.142	0.020
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.2755460
A_1	$-1.4470354 \times 10^{-2}$
A_2	3.0922062×10^{-2}
A_3	7.3289981×10^{-4}
A_4	4.6573307×10^{-6}
A_5	1.8242746×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	665
T_s (°C)	697
$T_{10^{14.5}}$ (°C)	637
$T_{10^{13}}$ (°C)	657
$T_{10^{7.6}}$ (°C)	727
$\alpha_{-30/+70}$ ($10^{-7}/K$)	64
$\alpha_{100/300}$ ($10^{-7}/K$)	78
λ [W/(m·K)]	0.799
C_p [kJ/(kg·K)]	0.467

部分分散 Partial dispersions	
$n_c - n_t$	0.014748
$n_d - n_c$	0.005824
$n_F - n_d$	0.013716
$n_g - n_F$	0.011043
$n_{c'} - n_t$	0.015666
$n_e - n_{c'}$	0.009551
$n_{F'} - n_e$	0.010215
$n_g - n_{F'}$	0.009899

機械的性質 Mechanical Properties	
H_K	685 (7)
F_A	60
E (GPa)	122
G (GPa)	47.0
μ	0.300
σ_b (MPa)	105

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7548	$P'_{c,t}$	0.7926
$P_{d,c}$	0.2981	$P'_{d,c}$	0.2482
$P_{e,d}$	0.2377	$P'_{e,d}$	0.2350
$P_{F,e}$	0.4642	$P'_{F,e}$	0.5168
$P_{g,F}$	0.5651	$P'_{g,F}$	0.5008
$P_{h,g}$	0.4800	$P'_{h,g}$	0.4745
$P_{i,h}$	0.8424	$P'_{i,h}$	0.8327

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	4.5	2.1
-20/0	4.5	2.5
0/+20	4.7	2.9
+20/+40	4.8	3.2
+40/+60	4.9	3.5
+60/+80	5.0	3.8

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.34

比重 Specific Gravity	
d	4.72

着色度 Coloration Code	
$\lambda 80(\lambda 70)/\lambda 5$	400/325
着色度 Coloration of Internal Transmittance (内部透過率)	
$\lambda \tau 80/\lambda \tau 5$	360/323

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0093
$\Delta P_{c,A'}$	0.0024
$\Delta P_{e,d}$	-0.0073
$\Delta P_{g,F}$	-0.0062
$\Delta P_{i,g}$	-0.0408

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAFD5F	N-LASF41	S-LAH55	E-LASF05	H-ZLAF55A
Code	835-427	835-431	835-427	835-427	835-427
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