

TAFD25

904-313

$n_d = 1.90366$ $\nu_d = 31.32$ $n_F - n_C = 0.028857$
 $n_e = 1.91048$ $\nu_e = 31.08$ $n_{F'} - n_{C'} = 0.029295$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.87516
n_s	852.11	1.88152
$n_{A'}$	768.19	1.88619
n_r	706.52	1.89066
n_c	656.27	1.89526
$n_{c'}$	643.85	1.89657
n_{633}	632.80	1.89781
n_D	589.29	1.90341
n_d	587.56	1.90366
n_e	546.07	1.91048
n_F	486.13	1.92412
$n_{F'}$	479.99	1.92587
n_g	435.84	1.94128
n_h	404.66	1.95643
n_i	365.01	1.98458

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

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	0.998
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.997
950	0.998	0.997
900	0.998	0.996
850	0.998	0.996
830	0.998	0.996
800	0.999	0.997
780	0.999	0.997
750	0.998	0.996
700	0.997	0.995
650	0.997	0.995
600	0.998	0.995
550	0.998	0.996
500	0.993	0.986
480	0.990	0.980
460	0.984	0.969
440	0.977	0.955
420	0.962	0.926
400	0.924	0.854
390	0.880	0.775
380	0.787	0.619
370	0.593	0.352
360	0.264	0.069
350		
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.4905528
A_1	$-1.6325771 \times 10^{-2}$
A_2	4.1146322×10^{-2}
A_3	2.7169124×10^{-3}
A_4	$-1.8260518 \times 10^{-4}$
A_5	2.0641862×10^{-5}

熱的性質 Thermal Properties	
T_g (°C)	655
T_s (°C)	707
$T_{10^{14.5}}$ (°C)	634
$T_{10^{13}}$ (°C)	651
$T_{10^{7.6}}$ (°C)	735
$\alpha_{-30/+70}$ ($10^{-7}/K$)	76
$\alpha_{100/300}$ ($10^{-7}/K$)	88
λ [W/(m·K)]	0.820
C_p [kJ/(kg·K)]	0.474

部分分散 Partial dispersions	
$n_c - n_t$	0.020107
$n_d - n_c$	0.008396
$n_F - n_d$	0.020461
$n_g - n_F$	0.017161
$n_{c'} - n_t$	0.021417
$n_e - n_{c'}$	0.013912
$n_{F'} - n_e$	0.015383
$n_g - n_{F'}$	0.015413

機械的性質 Mechanical Properties	
H_K	630 (6)
F_A	90
E (GPa)	113
G (GPa)	43.0
μ	0.299
σ_b (MPa)	88

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.6968	$P'_{c',t}$	0.7311
$P_{d,c}$	0.2910	$P'_{d,c'}$	0.2419
$P_{e,d}$	0.2365	$P'_{e,d}$	0.2330
$P_{F,e}$	0.4725	$P'_{F',e}$	0.5251
$P_{g,F}$	0.5947	$P'_{g,F'}$	0.5261
$P_{h,g}$	0.5248	$P'_{h,g}$	0.5170
$P_{i,h}$	0.9757	$P'_{i,h}$	0.9612

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	3.2	0.7
-20/ 0	3.3	1.1
0/+20	3.4	1.5
+20/+40	3.6	2.0
+40/+60	3.8	2.4
+60/+80	4.0	2.7

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.42

比重 Specific Gravity	
d	4.51

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	(400)/360
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	393/359

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0045
$\Delta P_{c,A'}$	-0.0006
$\Delta P_{e,d}$	0.0033
$\Delta P_{g,F}$	0.0028
$\Delta P_{i,g}$	0.0365

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAFD25	N-LASF46A		E-LASFH13	
Code	904-313	904-313		904-313	
作成 201104					