

TAFD35

911-353

$n_d = 1.91082$ $\nu_d = 35.25$ $n_F - n_C = 0.025839$
 $n_e = 1.91695$ $\nu_e = 35.01$ $n_{F'} - n_{C'} = 0.026194$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.88481
n_s	852.11	1.89068
$n_{A'}$	768.19	1.89497
n_r	706.52	1.89905
n_c	656.27	1.90323
$n_{c'}$	643.85	1.90442
n_{633}	632.80	1.90554
n_D	589.29	1.91060
n_d	587.56	1.91082
n_e	546.07	1.91695
n_F	486.13	1.92907
$n_{F'}$	479.99	1.93062
n_g	435.84	1.94412
n_h	404.66	1.95717
n_i	365.01	1.98085

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	0.994	0.989
1500	0.994	0.988
1400	0.995	0.990
1300	0.996	0.992
1200	0.996	0.992
1100	0.997	0.993
1060	0.997	0.994
1050	0.997	0.994
1000	0.997	0.994
950	0.998	0.995
900	0.998	0.996
850	0.998	0.996
830	0.999	0.996
800	0.999	0.996
780	0.999	0.996
750	0.998	0.996
700	0.998	0.995
650	0.997	0.994
600	0.997	0.993
550	0.996	0.993
500	0.992	0.984
480	0.988	0.976
460	0.983	0.966
440	0.976	0.953
420	0.965	0.931
400	0.938	0.879
390	0.900	0.820
380	0.850	0.730
370	0.740	0.550
360	0.520	0.270
350	0.190	0.030
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.5274747
A_1	$-1.4839948 \times 10^{-2}$
A_2	3.9745402×10^{-2}
A_3	1.8034720×10^{-3}
A_4	$-8.9279334 \times 10^{-5}$
A_5	1.1377783×10^{-5}

熱的性質 Thermal Properties	
T_g (°C)	678
T_s (°C)	725
$T_{10^{14.5}}$ (°C)	657
$T_{10^{13}}$ (°C)	673
$T_{10^{7.6}}$ (°C)	764
$\alpha_{-30/+70}$ ($10^{-7}/K$)	71
$\alpha_{100/300}$ ($10^{-7}/K$)	82
λ [W/(m·K)]	0.814
C_p [kJ/(kg·K)]	0.424

部分分散 Partial dispersions	
$n_c - n_t$	0.018425
$n_d - n_c$	0.007588
$n_F - n_d$	0.018251
$n_g - n_F$	0.015042
$n_{c'} - n_t$	0.019614
$n_e - n_{c'}$	0.012525
$n_{F'} - n_e$	0.013669
$n_g - n_{F'}$	0.013498

機械的性質 Mechanical Properties	
H_K	630 (6)
F_A	60
E (GPa)	126
G (GPa)	48.3
μ	0.303
σ_b (MPa)	110

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7131	$P'_{c',t}$	0.7488
$P_{d,c}$	0.2937	$P'_{d,c'}$	0.2443
$P_{e,d}$	0.2371	$P'_{e,d}$	0.2339
$P_{F,e}$	0.4693	$P'_{F',e}$	0.5218
$P_{g,F}$	0.5821	$P'_{g,F'}$	0.5153
$P_{h,g}$	0.5052	$P'_{h,g}$	0.4984
$P_{i,h}$	0.9165	$P'_{i,h}$	0.9041

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	4.8	2.2
-20/0	4.9	2.7
0/+20	5.1	3.2
+20/+40	5.2	3.5
+40/+60	5.4	3.9
+60/+80	5.5	4.2

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.18

比重 Specific Gravity	
d	4.97

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0025
$\Delta P_{c,A'}$	0.0002
$\Delta P_{e,d}$	-0.0030
$\Delta P_{g,F}$	-0.0026
$\Delta P_{i,g}$	-0.0076

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAFD35			(J-LASFH9)	(H-ZLAF78)
Code	911-353			903-357	901-371
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