

E-ADF50

654-396

$n_d = 1.65412$ $\nu_d = 39.62$ $n_F - n_C = 0.016510$
 $n_e = 1.65804$ $\nu_e = 39.39$ $n_{F'} - n_{C'} = 0.016707$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.63647
n_s	852.11	1.64074
$n_{A'}$	768.19	1.64370
n_r	706.52	1.64645
n_c	656.27	1.64921
$n_{c'}$	643.85	1.64998
n_{633}	632.80	1.65071
n_D	589.29	1.65397
n_d	587.56	1.65412
n_e	546.07	1.65804
n_F	486.13	1.66572
$n_{F'}$	479.99	1.66669
n_g	435.84	1.67519
n_h	404.66	1.68338
n_i	365.01	1.69815

分散式の定数 Constants of dispersion formula	
A_0	2.6680422
A_1	$-1.3184258 \times 10^{-2}$
A_2	2.3930479×10^{-2}
A_3	2.3928655×10^{-4}
A_4	5.0697941×10^{-5}
A_5	9.1240958×10^{-7}

部分分散 Partial dispersions	
$n_c - n_t$	0.012735
$n_d - n_c$	0.004914
$n_F - n_d$	0.011596
$n_g - n_F$	0.009470
$n_{c'} - n_t$	0.013511
$n_e - n_{c'}$	0.008054
$n_{F'} - n_e$	0.008653
$n_g - n_{F'}$	0.008497

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7714	$P'_{c,t}$	0.8087
$P_{d,c}$	0.2976	$P'_{d,c}$	0.2477
$P_{e,d}$	0.2372	$P'_{e,d}$	0.2344
$P_{F,e}$	0.4652	$P'_{F,e}$	0.5179
$P_{g,F}$	0.5736	$P'_{g,F}$	0.5086
$P_{h,g}$	0.4962	$P'_{h,g}$	0.4904
$P_{i,h}$	0.8947	$P'_{i,h}$	0.8841

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0403
$\Delta P_{c,A'}$	0.0084
$\Delta P_{g,d}$	-0.0055
$\Delta P_{g,F}$	-0.0033
$\Delta P_{i,g}$	0.0003

化学的性質 Chemical Properties	
D_W	2
D_A	6
T_{Blue}	+
D_{NaOH}	5
D_{STPP}	5
D_0	5
D_H	

熱的性質 Thermal Properties	
T_g (°C)	497
T_s (°C)	539
$T_{10^{14.5}}$ (°C)	474
$T_{10^{13}}$ (°C)	488
$T_{10^{7.6}}$ (°C)	568
$\alpha_{-30/+70}$ ($10^{-7}/K$)	51
$\alpha_{100/300}$ ($10^{-7}/K$)	65
λ [W/(m·K)]	0.753
C_p [kJ/(kg·K)]	0.614

機械的性質 Mechanical Properties	
H_K	460 (5)
F_A	160
E (GPa)	
G (GPa)	
μ	
σ_b (MPa)	

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	6.6	4.4
-20/ 0	6.7	4.8
0/+20	6.9	5.3
+20/+40	7.1	5.7
+40/+60	7.3	6.1
+60/+80	7.6	6.4

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

比重 Specific Gravity	
d	3.38

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.986	0.972
1500	0.984	0.967
1400	0.976	0.953
1300	0.996	0.993
1200	0.997	0.995
1100	0.997	0.994
1060	0.998	0.995
1050	0.997	0.994
1000	0.996	0.993
950	0.996	0.992
900	0.996	0.993
850	0.996	0.992
830	0.996	0.993
800	0.997	0.993
780	0.997	0.993
750	0.997	0.993
700	0.997	0.994
650	0.997	0.995
600	0.997	0.995
550	0.998	0.995
500	0.996	0.992
480	0.994	0.987
460	0.990	0.980
440	0.984	0.969
420	0.975	0.950
400	0.953	0.909
390	0.930	0.870
380	0.890	0.790
370	0.800	0.630
360	0.620	0.380
350	0.300	0.090
340		
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
$\lambda 80(\lambda 70)/\lambda 5$	400/350

着色度 Coloration of Internal Transmittance (内部透過率)	
$\lambda \tau 80/\lambda \tau 5$	

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-ADF50	N-KZFS5	S-NBH5		
Code	654-396	654-397	654-397		
作成 201104					