

E-ADF10

613-444

$n_d = 1.61310$ $\nu_d = 44.36$ $n_F - n_C = 0.013821$
 $n_e = 1.61639$ $\nu_e = 44.13$ $n_{F'} - n_{C'} = 0.013967$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.59788
n_s	852.11	1.60170
$n_{A'}$	768.19	1.60427
n_r	706.52	1.60661
n_c	656.27	1.60895
$n_{c'}$	643.85	1.60961
n_{633}	632.80	1.61022
n_D	589.29	1.61298
n_d	587.56	1.61310
n_e	546.07	1.61639
n_F	486.13	1.62277
$n_{F'}$	479.99	1.62358
n_g	435.84	1.63052
n_h	404.66	1.63711
n_i	365.01	1.64889

分散式の定数 Constants of dispersion formula	
A_0	2.5528983
A_1	$-1.5709364 \times 10^{-2}$
A_2	1.5647688×10^{-2}
A_3	1.4461641×10^{-3}
A_4	$-1.4458879 \times 10^{-4}$
A_5	9.5275733×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.011076
$n_d - n_c$	0.004147
$n_F - n_d$	0.009674
$n_g - n_F$	0.007745
$n_{c'} - n_t$	0.011733
$n_e - n_{c'}$	0.006777
$n_{F'} - n_e$	0.007190
$n_g - n_{F'}$	0.006942

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8014	$P'_{c,t}$	0.8401
$P_{d,c}$	0.3001	$P'_{d,c}$	0.2499
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2353
$P_{F,e}$	0.4621	$P'_{F,e}$	0.5148
$P_{g,F}$	0.5604	$P'_{g,F}$	0.4970
$P_{h,g}$	0.4771	$P'_{h,g}$	0.4721
$P_{i,h}$	0.8518	$P'_{i,h}$	0.8429

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0482
$\Delta P_{c,A'}$	0.0084
$\Delta P_{g,d}$	-0.0103
$\Delta P_{g,F}$	-0.0080
$\Delta P_{i,g}$	-0.0198

化学的性質 Chemical Properties	
D_W	3
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)	496
T_s (°C)	538
$T_{10^{14.5}}$ (°C)	468
$T_{10^{13}}$ (°C)	486
$T_{10^{7.6}}$ (°C)	570
$\alpha_{-30/+70}$ ($10^{-7}/K$)	47
$\alpha_{100/300}$ ($10^{-7}/K$)	60
λ [W/(m·K)]	0.706
C_p [kJ/(kg·K)]	0.622

機械的性質 Mechanical Properties	
H_K	445 (4)
F_A	130
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	5.6	3.5
-20/ 0	5.7	3.9
0/+20	5.9	4.3
+20/+40	6.0	4.6
+40/+60	6.2	5.0
+60/+80	6.4	5.3

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

比重 Specific Gravity	
d	3.04

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.981	0.963
1500	0.977	0.954
1400	0.962	0.926
1300	0.996	0.992
1200	0.997	0.995
1100	0.998	0.995
1060	0.998	0.995
1050	0.998	0.996
1000	0.997	0.995
950	0.998	0.995
900	0.998	0.997
850	0.999	0.998
830	0.998	0.997
800	0.998	0.997
780	0.999	0.997
750	0.999	0.997
700	0.998	0.997
650	0.998	0.997
600	0.998	0.997
550	0.998	0.996
500	0.997	0.994
480	0.996	0.992
460	0.995	0.989
440	0.992	0.984
420	0.987	0.975
400	0.977	0.954
390	0.966	0.932
380	0.945	0.893
370	0.900	0.820
360	0.820	0.670
350	0.610	0.380
340	0.310	0.090
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
$\lambda 80(\lambda 70)/\lambda 5$	380/340

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

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-ADF10	N-KZFS4	S-NBM51		
Code	613-444	613-445	613-443		
作成 201104					