

BACED5

658-509

$n_d = 1.65844$ $\nu_d = 50.86$ $n_F - n_C = 0.012947$
 $n_e = 1.66152$ $\nu_e = 50.57$ $n_{F'} - n_{C'} = 0.013081$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.64452
n_s	852.11	1.64784
$n_{A'}$	768.19	1.65018
n_r	706.52	1.65235
n_c	656.27	1.65454
$n_{c'}$	643.85	1.65516
n_{633}	632.80	1.65574
n_D	589.29	1.65832
n_d	587.56	1.65844
n_e	546.07	1.66152
n_F	486.13	1.66749
$n_{F'}$	479.99	1.66824
n_g	435.84	1.67471
n_h	404.66	1.68080
n_i	365.01	1.69138

分散式の定数 Constants of dispersion formula	
A_0	2.6934245
A_1	$-8.6370140 \times 10^{-3}$
A_2	2.0496450×10^{-2}
A_3	$-9.3205453 \times 10^{-5}$
A_4	6.2709747×10^{-5}
A_5	$-2.0834652 \times 10^{-6}$

部分分散 Partial dispersions	
$n_C - n_t$	0.010024
$n_d - n_C$	0.003891
$n_F - n_d$	0.009056
$n_g - n_F$	0.007218
$n_{C'} - n_t$	0.010640
$n_e - n_{C'}$	0.006356
$n_{F'} - n_e$	0.006725
$n_g - n_{F'}$	0.006468

部分分散比 Partial dispersion rates			
$P_{C,t}$	0.7742	$P'_{C,t}$	0.8134
$P_{d,C}$	0.3005	$P'_{d,C}$	0.2504
$P_{e,d}$	0.2380	$P'_{e,d}$	0.2355
$P_{F,e}$	0.4615	$P'_{F,e}$	0.5141
$P_{g,F}$	0.5575	$P'_{g,F}$	0.4945
$P_{h,g}$	0.4704	$P'_{h,g}$	0.4656
$P_{i,h}$	0.8173	$P'_{i,h}$	0.8089

異常分散性 Anomalous dispersions	
$\Delta P_{C,t}$	-0.0093
$\Delta P_{C,A'}$	-0.0012
$\Delta P_{g,d}$	0.0011
$\Delta P_{g,F}$	0.0008
$\Delta P_{i,g}$	-0.0035

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

熱的性質 Thermal Properties	
T_g (°C)	601
T_s (°C)	667
$T_{10^{14.5}}$ (°C)	581
$T_{10^{13}}$ (°C)	595
$T_{10^{7.6}}$ (°C)	729
$\alpha_{-30/+70}$ ($10^{-7}/K$)	72
$\alpha_{100/300}$ ($10^{-7}/K$)	89
λ [W/(m·K)]	0.896
C_p [kJ/(kg·K)]	0.553

機械的性質 Mechanical Properties	
H_K	580 (6)
F_A	150
E (GPa)	94
G (GPa)	36.6
μ	0.277
σ_b (MPa)	99

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	3.5	1.3
-20/ 0	3.6	1.6
0/+20	3.6	2.0
+20/+40	3.7	2.3
+40/+60	3.9	2.6
+60/+80	4.0	2.9

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.89

比重 Specific Gravity	
d	3.64

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	BACED5	N-SSK5	S-BSM25	E-SSK5	H-ZBAF50
Code	658-509	658-509	658-509	658-509	658-509
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.995
1500	0.998	0.995
1400	0.997	0.995
1300	0.999	0.998
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.999
830	0.999	0.998
800	0.999	0.998
780	0.999	0.998
750	0.998	0.998
700	0.999	0.998
650	0.998	0.995
600	0.998	0.997
550	0.999	0.999
500	0.999	0.997
480	0.997	0.995
460	0.996	0.992
440	0.995	0.990
420	0.994	0.988
400	0.989	0.979
390	0.981	0.962
380	0.966	0.933
370	0.934	0.872
360	0.864	0.747
350	0.723	0.523
340	0.488	0.238
330	0.197	0.039
320		
310		
300		
290		
280		
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	375/330	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$	364/331	