

BACD5

589-613

$n_d = 1.58913$ $\nu_d = 61.25$ $n_F - n_C = 0.009618$
 $n_e = 1.59142$ $\nu_e = 61.02$ $n_{F'} - n_{C'} = 0.009693$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.57814
n_s	852.11	1.58092
$n_{A'}$	768.19	1.58280
n_r	706.52	1.58450
n_c	656.27	1.58619
$n_{c'}$	643.85	1.58666
n_{633}	632.80	1.58710
n_D	589.29	1.58904
n_d	587.56	1.58913
n_e	546.07	1.59142
n_F	486.13	1.59581
$n_{F'}$	479.99	1.59635
n_g	435.84	1.60100
n_h	404.66	1.60531
n_i	365.01	1.61262

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.994
1500	0.997	0.994
1400	0.990	0.980
1300	0.999	0.998
1200	0.999	0.998
1100	0.999	0.998
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	0.998
830	0.999	0.998
800	0.999	0.998
780	0.999	0.998
750	0.999	0.998
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.999	0.999
480	0.999	0.997
460	0.998	0.996
440	0.998	0.995
420	0.998	0.995
400	0.997	0.994
390	0.995	0.990
380	0.992	0.985
370	0.988	0.976
360	0.978	0.956
350	0.960	0.922
340	0.925	0.856
330	0.867	0.752
320	0.768	0.590
310	0.622	0.387
300	0.434	0.189
290	0.244	0.059
280		

分散式の定数 Constants of dispersion formula	
A_0	2.4861499
A_1	$-9.5684845 \times 10^{-3}$
A_2	1.4685059×10^{-2}
A_3	$-1.1216487 \times 10^{-4}$
A_4	4.1978777×10^{-5}
A_5	$-1.8856190 \times 10^{-6}$

熱的性質 Thermal Properties	
T_g (°C)	612
T_s (°C)	663
$T_{10^{14.5}}$ (°C)	579
$T_{10^{13}}$ (°C)	603
$T_{10^{7.6}}$ (°C)	724
$\alpha_{-30/+70}$ ($10^{-7}/K$)	57
$\alpha_{100/300}$ ($10^{-7}/K$)	69
λ [W/(m·K)]	1.060
C_p [kJ/(kg·K)]	0.590

部分分散 Partial dispersions	
$n_c - n_t$	0.008048
$n_d - n_c$	0.002941
$n_F - n_d$	0.006677
$n_g - n_F$	0.005197
$n_{c'} - n_t$	0.008518
$n_e - n_{c'}$	0.004765
$n_{F'} - n_e$	0.004928
$n_g - n_{F'}$	0.004652

機械的性質 Mechanical Properties	
H_K	615 (6)
F_A	100
E (GPa)	87
G (GPa)	34.6
μ	0.254
σ_b (MPa)	94

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8368	$P'_{c,t}$	0.8788
$P_{d,c}$	0.3058	$P'_{d,c}$	0.2549
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2367
$P_{F,e}$	0.4557	$P'_{F,e}$	0.5084
$P_{g,F}$	0.5403	$P'_{g,F}$	0.4799
$P_{h,g}$	0.4478	$P'_{h,g}$	0.4443
$P_{i,h}$	0.7601	$P'_{i,h}$	0.7543

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	3.5	1.6
0/+20	3.5	1.9
+20/+40	3.6	2.2
+40/+60	3.7	2.5
+60/+80	3.9	2.8

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

比重 Specific Gravity	
d	3.27

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	345/290

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	334/289

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0047
$\Delta P_{c,A'}$	0.0010
$\Delta P_{g,d}$	0.0024
$\Delta P_{g,F}$	0.0024
$\Delta P_{i,g}$	0.0088

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	BACD5	N-SK5	S-BAL35	E-SK5	H-ZK3
Code	589-613	589-613	589-612	589-612	589-613
作成 201104					