

# BACD4

# 613-586

$n_d = 1.61272$   $\nu_d = 58.58$   $n_F - n_C = 0.010460$   
 $n_e = 1.61521$   $\nu_e = 58.31$   $n_{F'} - n_{C'} = 0.010551$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.60105
$n_s$	852.11	1.60395
$n_{A'}$	768.19	1.60592
$n_r$	706.52	1.60774
$n_c$	656.27	1.60954
$n_{c'}$	643.85	1.61005
$n_{633}$	632.80	1.61052
$n_D$	589.29	1.61262
$n_d$	587.56	1.61272
$n_e$	546.07	1.61521
$n_F$	486.13	1.62000
$n_{F'}$	479.99	1.62060
$n_g$	435.84	1.62570
$n_h$	404.66	1.63043
$n_i$	365.01	1.63850

分散式の定数 Constants of dispersion formula	
$A_0$	2.5584621
$A_1$	$-9.7457283 \times 10^{-3}$
$A_2$	$1.5110495 \times 10^{-2}$
$A_3$	$2.3273333 \times 10^{-4}$
$A_4$	$1.1137249 \times 10^{-6}$
$A_5$	$1.6424767 \times 10^{-7}$

部分分散 Partial dispersions	
$n_c - n_t$	0.008492
$n_d - n_c$	0.003176
$n_F - n_d$	0.007284
$n_g - n_F$	0.005697
$n_{c'} - n_t$	0.008997
$n_e - n_{c'}$	0.005165
$n_{F'} - n_e$	0.005386
$n_g - n_{F'}$	0.005101

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8119	$P'_{c,t}$	0.8527
$P_{d,c}$	0.3036	$P'_{d,c}$	0.2532
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2364
$P_{F,e}$	0.4579	$P'_{F,e}$	0.5105
$P_{g,F}$	0.5446	$P'_{g,F}$	0.4835
$P_{h,g}$	0.4525	$P'_{h,g}$	0.4486
$P_{i,h}$	0.7713	$P'_{i,h}$	0.7647

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	-0.0077
$\Delta P_{c,A'}$	-0.0022
$\Delta P_{g,d}$	0.0028
$\Delta P_{g,F}$	0.0019
$\Delta P_{i,g}$	0.0010

化学的性質 Chemical Properties	
$D_W$	2
$D_A$	4
$T_{Blue}$	4
$D_{NaOH}$	4
$D_{STPP}$	1
$D_0$	2
$D_H$	

熱的性質 Thermal Properties	
$T_g$ (°C)	646
$T_s$ (°C)	699
$T_{10^{14.5}}$ (°C)	622
$T_{10^{13}}$ (°C)	638
$T_{10^{7.6}}$ (°C)	762
$\alpha_{-30/+70}$ ( $10^{-7}/K$ )	66
$\alpha_{100/300}$ ( $10^{-7}/K$ )	77
$\lambda$ [W/(m·K)]	0.864
$C_p$ [kJ/(kg·K)]	0.557

機械的性質 Mechanical Properties	
$H_K$	560 (6)
$F_A$	140
$E$ (GPa)	81
$G$ (GPa)	32.0
$\mu$	0.271
$\sigma_b$ (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	2.4	0.2
-20/0	2.5	0.6
0/+20	2.6	1.0
+20/+40	2.6	1.2
+40/+60	2.7	1.5
+60/+80	2.8	1.7

光弾性定数 Photoelastic Constant	
$B$ ( $10^{-12}/Pa$ )	1.93

比重 Specific Gravity	
$d$	3.58

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	BACD4	N-SK4	S-BSM 4		
Code	613-586	613-586	613-587		
作成 201104					

内部透過率 Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5mm	$\tau$ 10mm
1550	0.996	0.991
1500	0.996	0.991
1400	0.992	0.984
1300	0.998	0.996
1200	0.998	0.996
1100	0.998	0.996
1060	0.998	0.996
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	0.999
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	0.999	0.997
440	0.999	0.997
420	0.998	0.996
400	0.994	0.989
390	0.992	0.983
380	0.985	0.971
370	0.973	0.946
360	0.949	0.901
350	0.910	0.820
340	0.830	0.690
330	0.710	0.510
320	0.540	0.300
310	0.350	0.130
300	0.180	0.030
290		
280		

着色度 Coloration Code	
$\lambda 80(\lambda 70) / \lambda 5$	360/300

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