

# BACD15

# 623-581

$n_d = 1.62299$   $\nu_d = 58.12$   $n_F - n_C = 0.010719$   
 $n_e = 1.62555$   $\nu_e = 57.87$   $n_{F'} - n_{C'} = 0.010809$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.61104
$n_s$	852.11	1.61397
$n_{A'}$	768.19	1.61600
$n_r$	706.52	1.61787
$n_c$	656.27	1.61973
$n_{c'}$	643.85	1.62025
$n_{633}$	632.80	1.62074
$n_D$	589.29	1.62290
$n_d$	587.56	1.62299
$n_e$	546.07	1.62555
$n_F$	486.13	1.63045
$n_{F'}$	479.99	1.63106
$n_g$	435.84	1.63628
$n_h$	404.66	1.64115
$n_i$	365.01	1.64946

分散式の定数 Constants of dispersion formula	
$A_0$	2.5864832
$A_1$	$-8.0357829 \times 10^{-3}$
$A_2$	$1.8080573 \times 10^{-2}$
$A_3$	$-4.5974172 \times 10^{-4}$
$A_4$	$8.8484321 \times 10^{-5}$
$A_5$	$-3.7544765 \times 10^{-6}$

部分分散 Partial dispersions	
$n_c - n_t$	0.008690
$n_d - n_c$	0.003265
$n_F - n_d$	0.007454
$n_g - n_F$	0.005835
$n_{c'} - n_t$	0.009210
$n_e - n_{c'}$	0.005301
$n_{F'} - n_e$	0.005508
$n_g - n_{F'}$	0.005225

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8107	$P'_{c,t}$	0.8521
$P_{d,c}$	0.3046	$P'_{d,c}$	0.2540
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2365
$P_{F,e}$	0.4569	$P'_{F,e}$	0.5096
$P_{g,F}$	0.5444	$P'_{g,F}$	0.4834
$P_{h,g}$	0.4539	$P'_{h,g}$	0.4501
$P_{i,h}$	0.7754	$P'_{i,h}$	0.7690

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	-0.0067
$\Delta P_{c,A'}$	0.0004
$\Delta P_{g,d}$	0.0005
$\Delta P_{g,F}$	0.0008
$\Delta P_{i,g}$	0.0024

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

熱的性質 Thermal Properties	
$T_g$ (°C)	656
$T_s$ (°C)	711
$T_{10^{14.5}}$ (°C)	627
$T_{10^{13}}$ (°C)	649
$T_{10^{7.6}}$ (°C)	761
$\alpha_{-30/+70}$ ( $10^{-7}/K$ )	61
$\alpha_{100/300}$ ( $10^{-7}/K$ )	75
$\lambda$ [W/(m·K)]	0.833
$C_p$ [kJ/(kg·K)]	0.515

機械的性質 Mechanical Properties	
$H_K$	595 (6)
$F_A$	130
$E$ (GPa)	87
$G$ (GPa)	34.3
$\mu$	0.269
$\sigma_b$ (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	3.1	0.9
-20/ 0	2.9	1.1
0/+20	2.9	1.3
+20/+40	2.9	1.5
+40/+60	2.9	1.7
+60/+80	3.0	1.9

光弾性定数 Photoelastic Constant	
$B$ ( $10^{-12}/Pa$ )	1.99

比重 Specific Gravity	
$d$	3.55

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	BACD15	N-SK15	S-BSM15		
Code	623-581	623-580	623-582		
作成 201104					

内部透過率 Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5mm	$\tau$ 10mm
1550	0.997	0.993
1500	0.996	0.993
1400	0.992	0.984
1300	0.999	0.997
1200	0.999	0.997
1100	0.999	0.997
1060	0.998	0.996
1050	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
830	0.999	0.997
800	0.999	0.997
780	0.999	0.998
750	0.999	0.998
700	0.999	0.997
650	0.998	0.997
600	0.998	0.997
550	0.999	0.998
500	0.999	0.997
480	0.999	0.997
460	0.998	0.996
440	0.997	0.995
420	0.997	0.994
400	0.995	0.991
390	0.993	0.986
380	0.988	0.975
370	0.979	0.959
360	0.963	0.927
350	0.930	0.870
340	0.880	0.770
330	0.780	0.620
320	0.650	0.430
310	0.470	0.220
300	0.280	0.080
290	0.120	0.010
280		

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

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