

# BACD14

# 603-607

$n_d = 1.60311$   $\nu_d = 60.69$   $n_F - n_C = 0.009937$   
 $n_e = 1.60548$   $\nu_e = 60.43$   $n_{F'} - n_{C'} = 0.010020$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.59182
$n_s$	852.11	1.59470
$n_{A'}$	768.19	1.59662
$n_r$	706.52	1.59836
$n_c$	656.27	1.60009
$n_{c'}$	643.85	1.60057
$n_{633}$	632.80	1.60102
$n_D$	589.29	1.60302
$n_d$	587.56	1.60311
$n_e$	546.07	1.60548
$n_F$	486.13	1.61002
$n_{F'}$	479.99	1.61059
$n_g$	435.84	1.61540
$n_h$	404.66	1.61984
$n_i$	365.01	1.62742

分散式の定数 Constants of dispersion formula	
$A_0$	2.5335256
$A_1$	$-1.1903338 \times 10^{-2}$
$A_2$	$1.2257249 \times 10^{-2}$
$A_3$	$7.9172149 \times 10^{-4}$
$A_4$	$-7.7381829 \times 10^{-5}$
$A_5$	$3.9935441 \times 10^{-6}$

部分分散 Partial dispersions	
$n_c - n_t$	0.008266
$n_d - n_c$	0.003025
$n_F - n_d$	0.006912
$n_g - n_F$	0.005375
$n_{c'} - n_t$	0.008748
$n_e - n_{c'}$	0.004914
$n_{F'} - n_e$	0.005106
$n_g - n_{F'}$	0.004810

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8318	$P'_{c,t}$	0.8731
$P_{d,c}$	0.3044	$P'_{d,c}$	0.2538
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2366
$P_{F,e}$	0.4570	$P'_{F,e}$	0.5096
$P_{g,F}$	0.5409	$P'_{g,F}$	0.4800
$P_{h,g}$	0.4472	$P'_{h,g}$	0.4435
$P_{i,h}$	0.7626	$P'_{i,h}$	0.7563

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0024
$\Delta P_{c,A'}$	-0.0020
$\Delta P_{g,d}$	0.0031
$\Delta P_{g,F}$	0.0019
$\Delta P_{i,g}$	0.0057

化学的性質 Chemical Properties	
$D_W$	3
$D_A$	4
$T_{Blue}$	5
$D_{NaOH}$	5
$D_{STPP}$	2
$D_0$	5
$D_H$	

熱的性質 Thermal Properties	
$T_g$ (°C)	646
$T_s$ (°C)	699
$T_{10^{14.5}}$ (°C)	618
$T_{10^{13}}$ (°C)	639
$T_{10^{7.6}}$ (°C)	756
$\alpha_{-30/+70}$ ( $10^{-7}/K$ )	60
$\alpha_{100/300}$ ( $10^{-7}/K$ )	74
$\lambda$ [W/(m·K)]	0.826
$C_p$ [kJ/(kg·K)]	0.514

機械的性質 Mechanical Properties	
$H_K$	585 (6)
$F_A$	130
$E$ (GPa)	84
$G$ (GPa)	33.0
$\mu$	0.264
$\sigma_b$ (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	1.9	-0.3
-20/0	1.8	0.0
0/+20	2.0	0.4
+20/+40	2.0	0.6
+40/+60	2.1	0.9
+60/+80	2.2	1.1

光弾性定数 Photoelastic Constant	
$B$ ( $10^{-12}/Pa$ )	2.04

比重 Specific Gravity	
$d$	3.43

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	BACD14	N-SK14	S-BSM14	E-SK14	H-ZK14
Code	603-607	603-606	603-607	603-607	603-606
作成 201104					

内部透過率 Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5mm	$\tau$ 10mm
1550	0.996	0.993
1500	0.996	0.992
1400	0.991	0.983
1300	0.999	0.998
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.999
1000	0.999	0.999
950	0.999	0.999
900	0.999	0.999
850	0.999	0.999
830	0.999	0.999
800	0.999	0.999
780	0.999	0.999
750	0.999	0.999
700	0.999	0.999
650	0.999	0.997
600	0.999	0.997
550	0.999	0.999
500	0.998	0.996
480	0.997	0.994
460	0.996	0.992
440	0.995	0.991
420	0.996	0.991
400	0.995	0.990
390	0.994	0.988
380	0.989	0.978
370	0.982	0.965
360	0.970	0.941
350	0.946	0.894
340	0.905	0.819
330	0.833	0.693
320	0.722	0.522
310	0.559	0.313
300	0.358	0.128
290	0.167	0.028
280		
着色度 Coloration Code		
$\lambda 80(\lambda 70)/\lambda 5$	350/295	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80/\lambda \tau 5$	339/293	