

NBF1

743-492

$n_d = 1.74330$ $\nu_d = 49.22$ $n_F - n_C = 0.015101$
 $n_e = 1.74690$ $\nu_e = 48.99$ $n_{F'} - n_{C'} = 0.015246$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.72681
n_s	852.11	1.73083
$n_{A'}$	768.19	1.73361
n_r	706.52	1.73617
n_c	656.27	1.73874
$n_{c'}$	643.85	1.73946
n_{633}	632.80	1.74014
n_D	589.29	1.74317
n_d	587.56	1.74330
n_e	546.07	1.74690
n_F	486.13	1.75384
$n_{F'}$	479.99	1.75471
n_g	435.84	1.76214
n_h	404.66	1.76907
n_i	365.01	1.78109

分散式の定数 Constants of dispersion formula	
A_0	2.9753491
A_1	$-1.4613470 \times 10^{-2}$
A_2	2.1096383×10^{-2}
A_3	1.1980380×10^{-3}
A_4	$-1.1887388 \times 10^{-4}$
A_5	7.3444350×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.011931
$n_d - n_c$	0.004558
$n_F - n_d$	0.010543
$n_g - n_F$	0.008296
$n_{c'} - n_t$	0.012653
$n_e - n_{c'}$	0.007436
$n_{F'} - n_e$	0.007810
$n_g - n_{F'}$	0.007429

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7901	$P'_{c,t}$	0.8299
$P_{d,c}$	0.3018	$P'_{d,c}$	0.2516
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2361
$P_{F,e}$	0.4598	$P'_{F,e}$	0.5123
$P_{g,F}$	0.5494	$P'_{g,F}$	0.4873
$P_{h,g}$	0.4590	$P'_{h,g}$	0.4547
$P_{i,h}$	0.7959	$P'_{i,h}$	0.7883

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0142
$\Delta P_{c,A'}$	0.0033
$\Delta P_{g,d}$	-0.0120
$\Delta P_{g,F}$	-0.0103
$\Delta P_{i,g}$	-0.0507

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	4
D_{NaOH}	1
D_{STPP}	3
D_0	2
D_H	

熱的性質 Thermal Properties	
T_g (°C)	588
T_s (°C)	625
$T_{10^{14.5}}$ (°C)	565
$T_{10^{13}}$ (°C)	582
$T_{10^{7.6}}$ (°C)	658
$\alpha_{-30/+70}$ ($10^{-7}/K$)	53
$\alpha_{100/300}$ ($10^{-7}/K$)	68
λ [W/(m·K)]	0.807
C_p [kJ/(kg·K)]	0.528

機械的性質 Mechanical Properties	
H_K	675 (7)
F_A	70
E (GPa)	109
G (GPa)	41.6
μ	0.308
σ_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	8.0	5.6
-20/0	7.9	5.9
0/+20	7.9	6.2
+20/+40	7.9	6.4
+40/+60	8.0	6.7
+60/+80	8.1	6.9

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.28

比重 Specific Gravity	
d	4.17

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	NBF1	N-LAF35	S-LAM60	E-LAF010	H-LAF53
Code	743-492	743-494	743-493	743-493	743-492
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.995	0.991
1500	0.995	0.989
1400	0.995	0.990
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.999
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	0.998
780	0.999	0.999
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	0.999
460	0.999	0.997
440	0.997	0.995
420	0.995	0.991
400	0.992	0.984
390	0.988	0.977
380	0.982	0.964
370	0.971	0.943
360	0.950	0.902
350	0.917	0.841
340	0.869	0.755
330	0.798	0.637
320	0.687	0.472
310	0.504	0.254
300	0.261	0.068
290		
280		

着色度 Coloration Code	
$\lambda 80(\lambda 70)/\lambda 5$	370/300
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80/\lambda \tau 5$	345/298