

NBFD13

806-407

$n_d = 1.80610$ $\nu_d = 40.73$ $n_F - n_C = 0.019789$
 $n_e = 1.81081$ $\nu_e = 40.49$ $n_{F'} - n_{C'} = 0.020024$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.78545
n_s	852.11	1.79027
$n_{A'}$	768.19	1.79371
n_r	706.52	1.79694
n_c	656.27	1.80022
$n_{c'}$	643.85	1.80115
n_{633}	632.80	1.80202
n_D	589.29	1.80593
n_d	587.56	1.80610
n_e	546.07	1.81081
n_F	486.13	1.82001
$n_{F'}$	479.99	1.82117
n_g	435.84	1.83123
n_h	404.66	1.84081
n_i	365.01	1.85785

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.997
1500	0.998	0.996
1400	0.998	0.997
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	0.999
780	0.999	0.999
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	0.997	0.993
480	0.995	0.990
460	0.991	0.983
440	0.987	0.974
420	0.981	0.963
400	0.967	0.936
390	0.953	0.908
380	0.925	0.856
370	0.876	0.768
360	0.769	0.591
350	0.534	0.285
340	0.235	0.055
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.1729223
A_1	$-1.4248534 \times 10^{-2}$
A_2	2.9168114×10^{-2}
A_3	1.3428760×10^{-3}
A_4	$-9.6178753 \times 10^{-5}$
A_5	8.4042556×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	619
T_s (°C)	660
$T_{10^{14.5}}$ (°C)	597
$T_{10^{13}}$ (°C)	614
$T_{10^{7.6}}$ (°C)	692
$\alpha_{-30/+70}$ ($10^{-7}/K$)	57
$\alpha_{100/300}$ ($10^{-7}/K$)	72
λ [W/(m·K)]	0.996
C_p [kJ/(kg·K)]	0.507

部分分散 Partial dispersions	
$n_c - n_t$	0.014770
$n_d - n_c$	0.005885
$n_F - n_d$	0.013904
$n_g - n_F$	0.011222
$n_{c'} - n_t$	0.015696
$n_e - n_{c'}$	0.009663
$n_{F'} - n_e$	0.010361
$n_g - n_{F'}$	0.010061

機械的性質 Mechanical Properties	
H_K	680 (7)
F_A	70
E (GPa)	114
G (GPa)	43.9
μ	0.301
σ_b (MPa)	104

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7464	$P'_{c,t}$	0.7839
$P_{d,c}$	0.2974	$P'_{d,c}$	0.2477
$P_{e,d}$	0.2377	$P'_{e,d}$	0.2349
$P_{F,e}$	0.4649	$P'_{F,e}$	0.5174
$P_{g,F}$	0.5671	$P'_{g,F}$	0.5024
$P_{h,g}$	0.4841	$P'_{h,g}$	0.4784
$P_{i,h}$	0.8611	$P'_{i,h}$	0.8510

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	5.6	3.2
-20/ 0	5.6	3.5
0/+20	5.6	3.8
+20/+40	5.7	4.2
+40/+60	5.9	4.5
+60/+80	6.1	4.9

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.85

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0101
$\Delta P_{c,A'}$	0.0026
$\Delta P_{g,d}$	-0.0092
$\Delta P_{g,F}$	-0.0078
$\Delta P_{i,g}$	-0.0356

比重 Specific Gravity	
d	4.38

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	NBFD13	N-LASF43	S-LAH53	E-LASF03	H-ZLAF52
Code	806-407	806-406	806-409	806-409	806-410
作成 201104					