

NBFD10

834-373

$n_d = 1.83400$ $\nu_d = 37.34$ $n_F - n_C = 0.022333$
 $n_e = 1.83930$ $\nu_e = 37.09$ $n_{F'} - n_{C'} = 0.022629$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.81116
n_s	852.11	1.81642
$n_{A'}$	768.19	1.82020
n_r	706.52	1.82378
n_c	656.27	1.82742
$n_{c'}$	643.85	1.82845
n_{633}	632.80	1.82942
n_D	589.29	1.83381
n_d	587.56	1.83400
n_e	546.07	1.83930
n_F	486.13	1.84975
$n_{F'}$	479.99	1.85108
n_g	435.84	1.86268
n_h	404.66	1.87385
n_i	365.01	1.89393

化学的性質 Chemical Properties	
D_W	1
D_A	3
T_{Blue}	3
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	0.996
1500	0.997	0.993
1400	0.998	0.996
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	0.996	0.993
480	0.994	0.988
460	0.990	0.980
440	0.984	0.969
420	0.975	0.950
400	0.952	0.906
390	0.927	0.859
380	0.878	0.771
370	0.778	0.605
360	0.573	0.328
350	0.284	0.081
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.2615573
A_1	$-1.4542851 \times 10^{-2}$
A_2	3.3470739×10^{-2}
A_3	1.2266479×10^{-3}
A_4	$-2.5391842 \times 10^{-5}$
A_5	5.5971739×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	585
T_s (°C)	625
$T_{10^{14.5}}$ (°C)	554
$T_{10^{13}}$ (°C)	581
$T_{10^{7.6}}$ (°C)	663
$\alpha_{-30/+70}$ ($10^{-7}/K$)	59
$\alpha_{100/300}$ ($10^{-7}/K$)	73
λ [W/(m·K)]	0.971
C_p [kJ/(kg·K)]	0.490

部分分散 Partial dispersions	
$n_C - n_t$	0.016260
$n_d - n_C$	0.006580
$n_F - n_d$	0.015753
$n_g - n_F$	0.012929
$n_{c'} - n_t$	0.017293
$n_e - n_{c'}$	0.010843
$n_{F'} - n_e$	0.011786
$n_g - n_{F'}$	0.011600

機械的性質 Mechanical Properties	
H_K	695 (7)
F_A	70
E (GPa)	116
G (GPa)	45.0
μ	0.293
σ_b (MPa)	110

部分分散比 Partial dispersion rates			
$P_{C,t}$	0.7281	$P'_{C,t}$	0.7642
$P_{d,C}$	0.2946	$P'_{d,C}$	0.2451
$P_{e,d}$	0.2371	$P'_{e,d}$	0.2340
$P_{F,e}$	0.4682	$P'_{F,e}$	0.5208
$P_{g,F}$	0.5789	$P'_{g,F}$	0.5126
$P_{h,g}$	0.5002	$P'_{h,g}$	0.4937
$P_{i,h}$	0.8990	$P'_{i,h}$	0.8872

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	7.9	5.5
-20/ 0	8.1	6.0
0/+20	8.3	6.5
+20/+40	8.5	7.0
+40/+60	8.8	7.4
+60/+80	9.0	7.7

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.25

比重 Specific Gravity	
d	4.57

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	430/350

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	383/348

異常分散性 Anomalous dispersions	
$\Delta P_{C,t}$	0.0077
$\Delta P_{C,A'}$	0.0010
$\Delta P_{g,d}$	-0.0024
$\Delta P_{g,F}$	-0.0021
$\Delta P_{i,g}$	-0.0116

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	NBFD10	N-LASF40	S-LAH60	E-LASF010	H-ZLAF53A
Code	834-373	834-373	834-372	834-372	834-372
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