

NBFD26

834-260 $n_d = 1.83401$ $\nu_d = 25.97$ (25.965) $n_F - n_C = 0.032120$
 $n_e = 1.84159$ $\nu_e = 25.78$ (25.775) $n_{F'} - n_{C'} = 0.032651$

屈折率 Refractive Index		
	λ (nm)	
$n_{1529.6}$	1529.60	1.79020
$n_{1128.64}$	1128.64	1.79939
n_t	1013.98	1.80294
n_s	852.11	1.80976
$n_{A'}$	768.195	1.81483
n_r	706.519	1.81971
n_C	656.273	1.82475
$n_{C'}$	643.847	1.82619
n_{633}	632.8	1.82755
n_D	589.294	1.83373
n_d	587.562	1.83401
n_e	546.074	1.84159
n_F	486.133	1.85687
$n_{F'}$	479.991	1.85884
n_g	435.834	1.87639
n_h	404.656	1.89389
n_i	365.015	1.92713

分散式の定数 Constants of dispersion formula	
A_0	3.2218201
A_1	$-1.5366364 \times 10^{-2}$
A_2	4.3038744×10^{-2}
A_3	3.0180924×10^{-3}
A_4	$-1.9606389 \times 10^{-4}$
A_5	2.6446283×10^{-5}

部分分散 Partial dispersions	
$n_C - n_t$	0.021815
$n_d - n_C$	0.009262
$n_F - n_d$	0.022858
$n_g - n_F$	0.019517
$n_{C'} - n_t$	0.023257
$n_e - n_{C'}$	0.015399
$n_{F'} - n_e$	0.017252
$n_g - n_{F'}$	0.017544

部分分散比 Partial dispersion rates	
$P_{C,t}$	0.6792
$P_{d,C}$	0.2884
$P_{e,d}$	0.2360
$P_{F,e}$	0.4757
$P_{g,F}$	0.6076
$P_{h,g}$	0.5450
$P_{i,h}$	1.0349
$P'_{C,t}$	0.7123
$P'_{d,C'}$	0.2395
$P'_{e,d'}$	0.2321
$P'_{F',e'}$	0.5284
$P'_{g,F'}$	0.5373
$P'_{h,g'}$	0.5361
$P'_{i,h'}$	1.0180

異常分散性 Anomalous dispersions	
$\Delta P_{C,t}$	0.0120
$\Delta P_{C,A'}$	0.0005
$\Delta P_{g,d}$	0.0067
$\Delta P_{g,F}$	0.0061
$\Delta P_{i,g}$	0.0688

光弾性定数 Photoelastic Constant	
B (10^{-12} /Pa)	3.11

比重 Specific Gravity	
d	3.43

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

熱的性質 Thermal Properties	
T_g (°C)	548
T_s (°C)	588
$T_{10^{14}.5}$ (°C)	523
$T_{10^{13}}$ (°C)	546
$T_{10^{17}.6}$ (°C)	640
α -30/+70°C ($10^{-7}/^{\circ}\text{C}$)	81
α 100/300°C ($10^{-7}/^{\circ}\text{C}$)	106
λ [W/(m·K)]	1.040
C_p [kJ/(kg·K)]	0.693

機械的性質 Mechanical Properties	
H_K	555 (6)
F_A	140
E (GPa)	105
G (GPa)	41.8
μ	0.250
σ_b (MPa)	

内部透過率 Internal Transmittance			
λ (nm)	τ 2mm	τ 5mm	τ 10mm
2500	0.972	0.931	0.867
2400	0.978	0.946	0.895
2200	0.987	0.969	0.939
2000	0.994	0.986	0.972
1800	0.996	0.990	0.981
1600	0.998	0.996	0.992
1550	0.999	0.997	0.993
1500	0.999	0.997	0.993
1400	0.999	0.998	0.995
1300	0.999	0.999	0.999
1200	0.999	0.999	0.999
1100	0.999	0.999	0.999
1060	0.999	0.999	0.999
1050	0.999	0.999	0.999
1000	0.999	0.999	0.999
950	0.999	0.999	0.999
900	0.999	0.999	0.999
850	0.999	0.999	0.999
830	0.999	0.999	0.999
800	0.999	0.999	0.999
780	0.999	0.999	0.999
750	0.999	0.999	0.999
700	0.999	0.999	0.997
650	0.999	0.996	0.993
600	0.996	0.991	0.982
550	0.993	0.982	0.963
500	0.997	0.993	0.987
480	0.996	0.991	0.982
460	0.995	0.987	0.975
440	0.993	0.982	0.963
420	0.988	0.971	0.942
400	0.976	0.941	0.885
390	0.962	0.908	0.825
380	0.940	0.856	0.732
370	0.891	0.750	0.562
360	0.748	0.484	0.235
350	0.448	0.134	0.018
340			
330			
320			
310			
300			
290			
280			

屈折率の温度係数 $d n/dT$ ($\times 10^{-6}/^{\circ}\text{C}$)						アッペ数の温度係数 $d \nu/dT$ ($\times 10^{-3}/^{\circ}\text{C}$)							
Temperature Coefficient of Refractive Index						Temperature Coefficient of Abbe-number							
	(°C)	$d n/dT$										$d \nu/dT$	
		n_h	n_g	$n_{F'}$	n_F	n_e	n_d	n_{633}	$n_{C'}$	n_C	n_r	ν_e	ν_d
		404.66	435.84	479.99	486.13	546.07	587.56	632.80	643.85	656.27	706.52	546.07	587.56
$d n/dT$ & $d \nu/dT$ (rel.)	-40 / -20	7.7	6.0	4.5	4.4	3.3	2.8	2.4	2.3	2.2	2.0	-1.7	-1.7
	-20 / 0	7.8	6.1	4.5	4.4	3.2	2.7	2.3	2.2	2.1	1.9	-1.7	-1.7
	0 / 20	8.0	6.2	4.6	4.4	3.2	2.7	2.3	2.2	2.1	1.8	-1.8	-1.8
	20 / 40	8.3	6.3	4.7	4.5	3.3	2.7	2.2	2.2	2.1	1.8	-1.9	-1.9
	40 / 60	8.5	6.5	4.7	4.6	3.3	2.7	2.2	2.1	2.0	1.7	-1.9	-1.9
	60 / 80	8.7	6.6	4.8	4.6	3.3	2.7	2.2	2.1	2.0	1.7	-2.0	-2.0
	80 / 100	8.9	6.8	4.9	4.7	3.3	2.7	2.2	2.1	2.0	1.6	-2.1	-2.1
	100 / 120	9.1	6.9	4.9	4.7	3.3	2.7	2.1	2.0	1.9	1.6	-2.2	-2.2
	120 / 140	9.3	7.0	5.0	4.8	3.3	2.6	2.1	2.0	1.9	1.5	-2.2	-2.2
	140 / 150	9.4	7.1	5.0	4.8	3.3	2.6	2.0	1.9	1.8	1.4	-2.3	-2.3
$d n/dT$ & $d \nu/dT$ (abs.)	-40 / -20	5.1	3.4	2.0	1.8	0.8	0.3	-0.1	-0.1	-0.2	-0.5	-1.7	-1.7
	-20 / 0	5.6	3.9	2.4	2.2	1.1	0.6	0.2	0.1	0.0	-0.2	-1.7	-1.7
	0 / 20	6.1	4.3	2.7	2.6	1.4	0.9	0.4	0.4	0.3	0.0	-1.8	-1.8
	20 / 40	6.6	4.7	3.0	2.9	1.6	1.1	0.7	0.6	0.5	0.2	-1.9	-1.9
	40 / 60	7.0	5.0	3.3	3.1	1.8	1.3	0.8	0.7	0.6	0.3	-2.0	-2.0
	60 / 80	7.4	5.3	3.5	3.4	2.0	1.4	1.0	0.9	0.8	0.4	-2.0	-2.0
	80 / 100	7.8	5.6	3.8	3.6	2.2	1.6	1.1	1.0	0.9	0.5	-2.1	-2.1
	100 / 120	8.1	5.9	3.9	3.7	2.3	1.7	1.1	1.0	0.9	0.6	-2.2	-2.2
	120 / 140	8.4	6.1	4.1	3.9	2.4	1.7	1.2	1.1	1.0	0.6	-2.2	-2.2
	140 / 150	8.6	6.2	4.1	3.9	2.4	1.7	1.2	1.1	1.0	0.6	-2.3	-2.3

線膨張係数 α ($\times 10^{-7}/^{\circ}\text{C}$)	
Coefficient of Thermal Expansion	
(°C)	α
-40 / -30	77
-30 / -20	78
-20 / -10	79
-10 / 0	80
0 / 10	81
10 / 20	81
20 / 30	82
30 / 40	82
40 / 50	83
50 / 60	84
60 / 70	85
70 / 80	85
80 / 90	86
90 / 100	88
100 / 110	89
110 / 120	91
120 / 130	92
130 / 140	94
140 / 150	97

着色度 Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	440/355
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda_{\tau 80}/\lambda_{\tau 5}$	387/352
CCI Color Contribution Index	
CCI (G)	2.13
CCI (R)	2.31

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β_C	
β_d	
β_F	
β_g	

備考 Remarks						
硝種対照表 Glass Cross Reference Index						
	HOYA	SCHOTT	OHARA	HIKARI	SUMITA	CDGM
Glass_Type	NBFD26					
Code	834-260					
Excel File Name : HOYA20250701M.xlsm						