

NBFD265

952-262 $n_d = 1.95203$ $\nu_d = 26.20$ (26.196) $n_F - n_C = 0.036343$
 $n_e = 1.96061$ $\nu_e = 25.99$ (25.994) $n_{F'} - n_{C'} = 0.036955$

屈折率 Refractive Index		
	λ (nm)	
$n_{1529.6}$	1529.60	1.90312
$n_{1128.64}$	1128.64	1.91323
n_t	1013.98	1.91715
n_s	852.11	1.92475
$n_{A'}$	768.195	1.93042
n_r	706.519	1.93590
n_C	656.273	1.94158
$n_{C'}$	643.847	1.94320
n_{633}	632.8	1.94474
n_D	589.294	1.95172
n_d	587.562	1.95203
n_e	546.074	1.96061
n_F	486.133	1.97792
$n_{F'}$	479.991	1.98016
n_g	435.834	2.00009
n_h	404.656	2.02006
n_i	365.015	2.05827

分散式の定数 Constants of dispersion formula	
A_0	3.6415592
A_1	$-1.7833211 \times 10^{-2}$
A_2	4.9779099×10^{-2}
A_3	4.3665512×10^{-3}
A_4	$-3.5538803 \times 10^{-4}$
A_5	4.0318120×10^{-5}

部分分散 Partial dispersions	
$n_C - n_t$	0.024423
$n_d - n_C$	0.010456
$n_F - n_d$	0.025887
$n_g - n_F$	0.022172
$n_{C'} - n_t$	0.026049
$n_e - n_{C'}$	0.017403
$n_{F'} - n_e$	0.019552
$n_g - n_{F'}$	0.019934

部分分散比 Partial dispersion rates	
$P_{C,t}$	0.6720
$P_{d,C}$	0.2877
$P_{e,d}$	0.2359
$P_{F,e}$	0.4764
$P_{g,F}$	0.6101
$P_{h,g}$	0.5493
$P_{i,h}$	1.0514
$P'_{C,t}$	0.7049
$P'_{d,C'}$	0.2389
$P'_{e,d'}$	0.2320
$P'_{F',e'}$	0.5291
$P'_{g,F'}$	0.5394
$P'_{h,g'}$	0.5403
$P'_{i,h'}$	1.0340

異常分散性 Anomalous dispersions	
$\Delta P_{C,t}$	0.0037
$\Delta P_{C,A'}$	-0.0017
$\Delta P_{g,d}$	0.0103
$\Delta P_{g,F}$	0.0089
$\Delta P_{i,g}$	0.0917

光弾性定数 Photoelastic Constant	
B (10^{-12} /Pa)	1.82

比重 Specific Gravity	
d	4.24

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)	662
T_s (°C)	717
$T_{10^{14.5}}$ (°C)	626
$T_{10^{13}}$ (°C)	658
$T_{10^{7.6}}$ (°C)	762
α -30/+70°C ($10^{-7}/^{\circ}\text{C}$)	70
α 100/300°C ($10^{-7}/^{\circ}\text{C}$)	86
λ [W/(m·K)]	1.040
C_p [kJ/(kg·K)]	0.564

機械的性質 Mechanical Properties	
H_K	635 (6)
F_A	80
E (GPa)	125
G (GPa)	48.4
μ	0.290
σ_b (MPa)	

内部透過率 Internal Transmittance			
λ (nm)	τ 2mm	τ 5mm	τ 10mm
2500	0.960	0.902	0.814
2400	0.973	0.935	0.874
2200	0.991	0.977	0.954
2000	0.996	0.990	0.981
1800	0.998	0.996	0.991
1600	0.999	0.999	0.997
1550	0.999	0.999	0.998
1500	0.999	0.999	0.998
1400	0.999	0.999	0.999
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	0.998	0.995	0.990
600	0.991	0.977	0.955
550	0.977	0.943	0.890
500	0.994	0.985	0.970
480	0.991	0.977	0.955
460	0.986	0.965	0.932
440	0.977	0.943	0.890
420	0.957	0.895	0.801
400	0.907	0.783	0.614
390	0.853	0.672	0.452
380	0.752	0.491	0.241
370	0.562	0.237	0.056
360	0.192	0.016	
350	0.010		
340			
330			
320			
310			
300			
290			
280			

屈折率の温度係数 dn/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)	dn/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
dn/dT & $d\nu/dT$ (rel.)	-40 / -20	9.9	8.0	6.2	6.0	4.8	4.2	3.7	3.6	3.5	3.2	-1.7	-1.7
	-20 / 0	10.3	8.2	6.4	6.2	4.9	4.3	3.8	3.7	3.6	3.3	-1.8	-1.8
	0 / 20	10.7	8.5	6.6	6.4	5.0	4.4	3.9	3.8	3.7	3.4	-1.8	-1.8
	20 / 40	11.1	8.8	6.9	6.7	5.2	4.6	4.1	3.9	3.8	3.5	-1.9	-1.9
	40 / 60	11.5	9.2	7.1	6.9	5.4	4.7	4.2	4.1	4.0	3.6	-2.0	-2.0
	60 / 80	11.9	9.5	7.4	7.2	5.6	4.9	4.4	4.2	4.1	3.7	-2.0	-2.0
	80 / 100	12.3	9.8	7.6	7.4	5.8	5.1	4.5	4.4	4.3	3.8	-2.1	-2.1
	100 / 120	12.7	10.1	7.9	7.6	6.0	5.2	4.6	4.5	4.4	4.0	-2.2	-2.2
	120 / 140	13.1	10.4	8.1	7.8	6.1	5.3	4.7	4.6	4.5	4.0	-2.2	-2.2
	140 / 150	13.3	10.6	8.2	8.0	6.2	5.4	4.8	4.7	4.5	4.1	-2.3	-2.3
dn/dT & $d\nu/dT$ (abs.)	-40 / -20	7.2	5.2	3.5	3.3	2.1	1.5	1.1	1.0	0.9	0.6	-1.7	-1.7
	-20 / 0	7.9	5.9	4.1	3.9	2.6	2.0	1.5	1.5	1.4	1.0	-1.8	-1.8
	0 / 20	8.6	6.5	4.6	4.4	3.1	2.5	2.0	1.9	1.8	1.4	-1.9	-1.9
	20 / 40	9.3	7.1	5.1	4.9	3.5	2.9	2.4	2.3	2.2	1.8	-1.9	-1.9
	40 / 60	9.9	7.6	5.6	5.4	3.9	3.2	2.7	2.6	2.5	2.1	-2.0	-2.0
	60 / 80	10.5	8.1	6.0	5.8	4.3	3.6	3.0	2.9	2.8	2.4	-2.0	-2.0
	80 / 100	11.1	8.6	6.4	6.2	4.6	3.9	3.3	3.2	3.1	2.7	-2.1	-2.1
	100 / 120	11.6	9.0	6.8	6.5	4.9	4.1	3.6	3.4	3.3	2.9	-2.2	-2.2
	120 / 140	12.1	9.4	7.1	6.8	5.1	4.4	3.8	3.7	3.5	3.1	-2.2	-2.2
	140 / 150	12.4	9.7	7.3	7.1	5.3	4.5	3.9	3.8	3.7	3.2	-2.3	-2.3

線膨張係数 α ($\times 10^{-7}/^{\circ}\text{C}$)	
Coefficient of Thermal Expansion	
(°C)	α
-40 / -30	66
-30 / -20	67
-20 / -10	67
-10 / 0	68
0 / 10	69
10 / 20	69
20 / 30	70
30 / 40	71
40 / 50	71
50 / 60	72
60 / 70	73
70 / 80	73
80 / 90	74
90 / 100	74
100 / 110	75
110 / 120	75
120 / 130	76
130 / 140	76
140 / 150	76

着色度 Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(435)/370
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda_{\tau 80}/\lambda_{\tau 5}$	420/370

CCI Color Contribution Index	
CCI (G)	7.47
CCI (R)	7.90

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	NBFD265					
Code	952-262					
Excel File Name : HOYA20250701M.xlsm						