

FD140

762-266

$n_d = 1.76182$ $\nu_d = 26.61$ $n_F - n_C = 0.028631$
 $n_e = 1.76857$ $\nu_e = 26.39$ $n_{F'} - n_{C'} = 0.029119$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.73423
n_s	852.11	1.74031
$n_{A'}$	768.19	1.74480
n_r	706.52	1.74912
n_c	656.27	1.75359
$n_{c'}$	643.85	1.75487
n_{633}	632.80	1.75608
n_D	589.29	1.76157
n_d	587.56	1.76182
n_e	546.07	1.76857
n_F	486.13	1.78222
$n_{F'}$	479.99	1.78399
n_g	435.84	1.79975
n_h	404.66	1.81555
n_i	365.01	

分散式の定数 Constants of dispersion formula	
A_0	2.9851294
A_1	$-1.4237988 \times 10^{-2}$
A_2	3.5496437×10^{-2}
A_3	2.8457557×10^{-3}
A_4	$-1.9006799 \times 10^{-4}$
A_5	2.4309252×10^{-5}

部分分散 Partial dispersions	
$n_c - n_t$	0.019361
$n_d - n_c$	0.008227
$n_F - n_d$	0.020404
$n_g - n_F$	0.017527
$n_{c'} - n_t$	0.020640
$n_e - n_{c'}$	0.013697
$n_{F'} - n_e$	0.015422
$n_g - n_{F'}$	0.015760

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.6762	$P'_{c,t}$	0.7088
$P_{d,c}$	0.2873	$P'_{d,c}$	0.2386
$P_{e,d}$	0.2357	$P'_{e,d}$	0.2318
$P_{F,e}$	0.4769	$P'_{F,e}$	0.5296
$P_{g,F}$	0.6122	$P'_{g,F}$	0.5412
$P_{h,g}$	0.5519	$P'_{h,g}$	0.5426
$P_{i,h}$		$P'_{i,h}$	

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0060
$\Delta P_{c,A'}$	-0.0021
$\Delta P_{g,d}$	0.0137
$\Delta P_{g,F}$	0.0118
$\Delta P_{i,g}$	

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)	611
T_s (°C)	658
$T_{10^{14.5}}$ (°C)	584
$T_{10^{13}}$ (°C)	604
$T_{10^{7.6}}$ (°C)	696
$\alpha_{-30/+70}$ ($10^{-7}/K$)	84
$\alpha_{100/300}$ ($10^{-7}/K$)	102
λ [W/(m·K)]	1.020
C_p [kJ/(kg·K)]	0.694

機械的性質 Mechanical Properties	
H_K	585 (6)
F_A	160
E (GPa)	91
G (GPa)	36.2
μ	0.256
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	1.7	-0.7
-20/ 0	1.7	-0.3
0/+20	1.9	0.1
+20/+40	2.0	0.5
+40/+60	2.2	0.8
+60/+80	2.4	1.2

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

比重 Specific Gravity	
d	3.14

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	FD140	N-SF14	S-TIH14	E-SF14	H-ZF12
Code	762-266	762-265	762-265	762-266	762-266
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.995
1500	0.997	0.995
1400	0.997	0.995
1300	0.999	0.998
1200	0.999	0.998
1100	0.998	0.996
1060	0.998	0.996
1050	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
830	0.998	0.995
800	0.998	0.995
780	0.998	0.995
750	0.996	0.994
700	0.996	0.992
650	0.995	0.989
600	0.997	0.994
550	0.997	0.993
500	0.991	0.982
480	0.988	0.976
460	0.983	0.966
440	0.977	0.954
420	0.961	0.924
400	0.901	0.812
390	0.815	0.663
380	0.626	0.392
370	0.301	0.091
360		
350		
340		
330		
320		
310		
300		
290		
280		
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	430/370	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$	399/368	