

E-FD5

673-322

$n_d = 1.67270$ $\nu_d = 32.17$ $n_F - n_C = 0.020910$
 $n_e = 1.67764$ $\nu_e = 31.92$ $n_{F'} - n_{C'} = 0.021227$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.65191
n_s	852.11	1.65660
$n_{A'}$	768.19	1.66002
n_r	706.52	1.66327
n_c	656.27	1.66661
$n_{c'}$	643.85	1.66756
n_{633}	632.80	1.66846
n_D	589.29	1.67252
n_d	587.56	1.67270
n_e	546.07	1.67764
n_F	486.13	1.68752
$n_{F'}$	479.99	1.68879
n_g	435.84	1.69999
n_h	404.66	1.71105
n_i	365.01	1.73182

分散式の定数 Constants of dispersion formula	
A_0	2.7135839
A_1	$-1.1419719 \times 10^{-2}$
A_2	2.6133708×10^{-2}
A_3	1.7576479×10^{-3}
A_4	$-1.3307737 \times 10^{-4}$
A_5	1.5203351×10^{-5}

部分分散 Partial dispersions	
$n_c - n_t$	0.014700
$n_d - n_c$	0.006087
$n_F - n_d$	0.014823
$n_g - n_F$	0.012467
$n_{c'} - n_t$	0.015651
$n_e - n_{c'}$	0.010081
$n_{F'} - n_e$	0.011146
$n_g - n_{F'}$	0.011199

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7030	$P'_{c,t}$	0.7373
$P_{d,c}$	0.2911	$P'_{d,c}$	0.2420
$P_{e,d}$	0.2365	$P'_{e,d}$	0.2330
$P_{F,e}$	0.4724	$P'_{F,e}$	0.5251
$P_{g,F}$	0.5962	$P'_{g,F}$	0.5276
$P_{h,g}$	0.5290	$P'_{h,g}$	0.5211
$P_{i,h}$	0.9934	$P'_{i,h}$	0.9786

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0068
$\Delta P_{c,A'}$	-0.0004
$\Delta P_{g,d}$	0.0067
$\Delta P_{g,F}$	0.0059
$\Delta P_{i,g}$	0.0659

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)	580
T_s (°C)	629
$T_{10^{14.5}}$ (°C)	557
$T_{10^{13}}$ (°C)	570
$T_{10^{7.6}}$ (°C)	678
$\alpha_{-30/+70}$ ($10^{-7}/K$)	89
$\alpha_{100/300}$ ($10^{-7}/K$)	109
λ [W/(m·K)]	1.030
C_p [kJ/(kg·K)]	0.721

機械的性質 Mechanical Properties	
H_K	520 (5)
F_A	170
E (GPa)	82
G (GPa)	32.9
μ	0.251
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	1.2	-1.1
-20/ 0	1.2	-0.7
0/+20	1.3	-0.4
+20/+40	1.3	-0.1
+40/+60	1.4	0.1
+60/+80	1.5	0.3

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

比重 Specific Gravity	
d	2.90

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-FD5	N-SF5	S-TIM25	E-SF5	H-ZF2
Code	673-322	673-323	673-321	673-321	673-322
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.994
1500	0.997	0.993
1400	0.997	0.995
1300	0.999	0.998
1200	0.999	0.997
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	0.997	0.995
850	0.997	0.994
830	0.998	0.996
800	0.998	0.997
780	0.999	0.997
750	0.999	0.997
700	0.997	0.994
650	0.997	0.994
600	0.998	0.995
550	0.997	0.994
500	0.994	0.988
480	0.993	0.985
460	0.990	0.979
440	0.988	0.975
420	0.981	0.962
400	0.960	0.922
390	0.926	0.857
380	0.832	0.692
370	0.600	0.360
360	0.220	0.048
350		
340		
330		
320		
310		
300		
290		
280		
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	400/360	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$	386/360	