

E-F5

603-380

$n_d = 1.60342$ $\nu_d = 38.01$ $n_F - n_C = 0.015875$
 $n_e = 1.60718$ $\nu_e = 37.74$ $n_{F'} - n_{C'} = 0.016088$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.58703
n_s	852.11	1.59087
$n_{A'}$	768.19	1.59359
n_r	706.52	1.59615
n_c	656.27	1.59874
$n_{c'}$	643.85	1.59948
n_{633}	632.80	1.60017
n_D	589.29	1.60328
n_d	587.56	1.60342
n_e	546.07	1.60718
n_F	486.13	1.61462
$n_{F'}$	479.99	1.61557
n_g	435.84	1.62387
n_h	404.66	1.63195
n_i	365.01	1.64678

分散式の定数 Constants of dispersion formula	
A_0	2.5095673
A_1	$-1.0862661 \times 10^{-2}$
A_2	1.9894774×10^{-2}
A_3	1.0137134×10^{-3}
A_4	$-6.2697117 \times 10^{-5}$
A_5	7.5080045×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.011716
$n_d - n_c$	0.004677
$n_F - n_d$	0.011198
$n_g - n_F$	0.009250
$n_{c'} - n_t$	0.012450
$n_e - n_{c'}$	0.007704
$n_{F'} - n_e$	0.008384
$n_g - n_{F'}$	0.008303

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7380	$P'_{c,t}$	0.7739
$P_{d,c}$	0.2946	$P'_{d,c}$	0.2451
$P_{e,d}$	0.2369	$P'_{e,d}$	0.2338
$P_{F,e}$	0.4685	$P'_{F,e}$	0.5211
$P_{g,F}$	0.5827	$P'_{g,F}$	0.5161
$P_{h,g}$	0.5089	$P'_{h,g}$	0.5022
$P_{i,h}$	0.9340	$P'_{i,h}$	0.9217

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0145
$\Delta P_{c,A'}$	0.0015
$\Delta P_{g,d}$	0.0029
$\Delta P_{g,F}$	0.0029
$\Delta P_{i,g}$	0.0381

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)	583
T_s (°C)	632
$T_{10^{14.5}}$ (°C)	547
$T_{10^{13}}$ (°C)	573
$T_{10^{7.6}}$ (°C)	692
$\alpha_{-30/+70}$ ($10^{-7}/K$)	80
$\alpha_{100/300}$ ($10^{-7}/K$)	95
λ [W/(m·K)]	1.110
C_p [kJ/(kg·K)]	0.771

機械的性質 Mechanical Properties	
H_K	515 (5)
F_A	130
E (GPa)	79
G (GPa)	32.0
μ	0.232
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	2.2	0.1
-20/0	2.4	0.5
0/+20	2.5	1.0
+20/+40	2.7	1.3
+40/+60	2.8	1.6
+60/+80	2.9	1.9

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

比重 Specific Gravity	
d	2.63

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-F5		S-TIM5	E-F5	H-F1
Code	603-380		603-380	603-380	603-380
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.994
1500	0.997	0.994
1400	0.995	0.990
1300	0.999	0.998
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
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	0.998	0.996
650	0.997	0.994
600	0.998	0.997
550	0.998	0.996
500	0.996	0.991
480	0.994	0.988
460	0.993	0.985
440	0.992	0.984
420	0.989	0.978
400	0.978	0.957
390	0.957	0.916
380	0.906	0.820
370	0.758	0.574
360	0.435	0.190
350		
340		
330		
320		
310		
300		
290		
280		
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	390/355	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$	379/355	