

E-F3

613-370

$n_d = 1.61293$ $\nu_d = 36.96$ $n_F - n_C = 0.016584$
 $n_e = 1.61686$ $\nu_e = 36.70$ $n_{F'} - n_{C'} = 0.016810$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.59590
n_s	852.11	1.59986
$n_{A'}$	768.19	1.60269
n_r	706.52	1.60535
n_c	656.27	1.60805
$n_{c'}$	643.85	1.60882
n_{633}	632.80	1.60954
n_D	589.29	1.61279
n_d	587.56	1.61293
n_e	546.07	1.61686
n_F	486.13	1.62463
$n_{F'}$	479.99	1.62563
n_g	435.84	1.63433
n_h	404.66	1.64284
n_i	365.01	1.65855

分散式の定数 Constants of dispersion formula	
A_0	2.5362697
A_1	$-1.0610424 \times 10^{-2}$
A_2	2.1233821×10^{-2}
A_3	9.9012105×10^{-4}
A_4	$-5.9984348 \times 10^{-5}$
A_5	8.2354366×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.012149
$n_d - n_c$	0.004879
$n_F - n_d$	0.011705
$n_g - n_F$	0.009700
$n_{c'} - n_t$	0.012915
$n_e - n_{c'}$	0.008041
$n_{F'} - n_e$	0.008769
$n_g - n_{F'}$	0.008708

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7326	$P'_{c,t}$	0.7683
$P_{d,c}$	0.2942	$P'_{d,c}$	0.2447
$P_{e,d}$	0.2369	$P'_{e,d}$	0.2337
$P_{F,e}$	0.4689	$P'_{F,e}$	0.5217
$P_{g,F}$	0.5849	$P'_{g,F}$	0.5180
$P_{h,g}$	0.5128	$P'_{h,g}$	0.5059
$P_{i,h}$	0.9472	$P'_{i,h}$	0.9345

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0140
$\Delta P_{c,A'}$	0.0016
$\Delta P_{g,d}$	0.0032
$\Delta P_{g,F}$	0.0032
$\Delta P_{i,g}$	0.0459

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)	581
T_s (°C)	633
$T_{10^{14.5}}$ (°C)	545
$T_{10^{13}}$ (°C)	572
$T_{10^{7.6}}$ (°C)	694
$\alpha_{-30/+70}$ ($10^{-7}/K$)	77
$\alpha_{100/300}$ ($10^{-7}/K$)	96
λ [W/(m·K)]	1.020
C_p [kJ/(kg·K)]	0.742

機械的性質 Mechanical Properties	
H_K	540 (5)
F_A	150
E (GPa)	80
G (GPa)	32.4
μ	0.233
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	2.6	0.4
-20/0	2.8	1.0
0/+20	3.0	1.4
+20/+40	3.1	1.7
+40/+60	3.2	1.9
+60/+80	3.3	2.2

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

比重 Specific Gravity	
d	2.64

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.995
1500	0.998	0.995
1400	0.995	0.990
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.999
900	0.999	0.999
850	0.999	0.999
830	0.999	0.999
800	0.999	0.999
780	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.998	0.997
600	0.999	0.998
550	0.999	0.998
500	0.996	0.993
480	0.995	0.990
460	0.993	0.986
440	0.992	0.983
420	0.988	0.977
400	0.974	0.949
390	0.949	0.901
380	0.880	0.775
370	0.710	0.504
360	0.410	0.168
350	0.117	0.014
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	
$\lambda \tau 80 / \lambda \tau 5$	382/354

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-F3		S-TIM3	E-F3	H-F2
Code	613-370		613-370	613-370	613-370
作成 201104					