

E-FDS2

003-193

$n_d = 2.00272$ $\nu_d = 19.32$ $n_F - n_C = 0.051909$
 $n_e = 2.01489$ $\nu_e = 19.16$ $n_{F'} - n_{C'} = 0.052970$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.95534
n_s	852.11	1.96525
$n_{A'}$	768.19	1.97285
n_r	706.52	1.98031
n_c	656.27	1.98813
$n_{c'}$	643.85	1.99038
n_{633}	632.80	1.99251
n_D	589.29	2.00228
n_d	587.56	2.00272
n_e	546.07	2.01489
n_F	486.13	2.04003
$n_{F'}$	479.99	2.04335
n_g	435.84	2.07351
n_h	404.66	2.10498
n_i	365.01	

化学的性質 Chemical Properties	
D_W	1
D_A	1
T_{Blue}	1
D_{NaOH}	1
D_{STPP}	2
D_0	1
D_H	

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.995
1500	0.997	0.994
1400	0.999	0.997
1300	0.999	0.998
1200	0.999	0.999
1100	0.999	0.998
1060	0.998	0.996
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
830	0.998	0.996
800	0.999	0.998
780	0.998	0.996
750	0.999	0.998
700	0.998	0.995
650	0.996	0.992
600	0.996	0.993
550	0.992	0.984
500	0.977	0.954
480	0.964	0.928
460	0.940	0.884
440	0.880	0.774
420	0.676	0.457
400	0.179	0.032
390		
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.7672603
A_1	$-1.7001227 \times 10^{-2}$
A_2	6.9849634×10^{-2}
A_3	6.3862892×10^{-3}
A_4	$-5.0812539 \times 10^{-4}$
A_5	8.4455529×10^{-5}

熱的性質 Thermal Properties	
T_g (°C)	479
T_s (°C)	527
$T_{10^{14.5}}$ (°C)	458
$T_{10^{13}}$ (°C)	477
$T_{10^{7.6}}$ (°C)	567
$\alpha_{-30/+70}$ ($10^{-7}/K$)	84
$\alpha_{100/300}$ ($10^{-7}/K$)	101
λ [W/(m·K)]	0.672
C_p [kJ/(kg·K)]	0.388

部分分散 Partial dispersions	
$n_c - n_t$	0.032782
$n_d - n_c$	0.014598
$n_F - n_d$	0.037311
$n_g - n_F$	0.033480
$n_{c'} - n_t$	0.035033
$n_e - n_{c'}$	0.024512
$n_{F'} - n_e$	0.028458
$n_g - n_{F'}$	0.030168

機械的性質 Mechanical Properties	
H_K	375 (4)
F_A	290
E (GPa)	87
G (GPa)	34.5
μ	0.257
σ_b (MPa)	56

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.6315	$P'_{c',t}$	0.6614
$P_{d,c}$	0.2812	$P'_{d,c'}$	0.2331
$P_{e,d}$	0.2344	$P'_{e,d}$	0.2297
$P_{F,e}$	0.4844	$P'_{F',e}$	0.5372
$P_{g,F}$	0.6450	$P'_{g,F'}$	0.5695
$P_{h,g}$	0.6062	$P'_{h,g}$	0.5941
$P_{i,h}$		$P'_{i,h}$	

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	5.7	3.0
-20/ 0	6.1	3.8
0/+20	6.4	4.4
+20/+40	6.8	5.1
+40/+60	7.2	5.7
+60/+80	7.6	6.2

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.00

比重 Specific Gravity	
d	5.08

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	(460) / 405

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	443 / 402

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	-0.0047
$\Delta P_{c,A'}$	-0.0061
$\Delta P_{e,d}$	0.0360
$\Delta P_{g,F}$	0.0315
$\Delta P_{i,g}$	

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
Glass Type	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Code	E-FDS2				
	003-193				
作成 201104					