

M-FDS910

821-241

$n_d = 1.82115$ $\nu_d = 24.06$ $n_F - n_C = 0.034132$
 $n_e = 1.82917$ $\nu_e = 23.86$ $n_{F'} - n_{C'} = 0.034751$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.78875
n_s	852.11	1.79577
$n_{A'}$	768.19	1.80103
n_r	706.52	1.80612
n_c	656.27	1.81140
$n_{c'}$	643.85	1.81291
n_{633}	632.80	1.81434
n_D	589.29	1.82085
n_d	587.56	1.82115
n_e	546.07	1.82917
n_F	486.13	1.84553
$n_{F'}$	479.99	1.84766
n_g	435.84	1.86682
n_h	404.66	1.88629
n_i	365.01	

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.999	0.999
1500	0.999	0.999
1400	0.999	0.999
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.999
1050	0.999	0.999
1000	0.999	0.999
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	0.997
650	0.998	0.995
600	0.998	0.995
550	0.994	0.988
500	0.981	0.962
480	0.972	0.944
460	0.958	0.918
440	0.937	0.877
420	0.892	0.795
400	0.772	0.596
390	0.626	0.392
380	0.387	0.150
370	0.138	0.019
360		
350		
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.1659870
A_1	$-1.3491960 \times 10^{-2}$
A_2	4.6499180×10^{-2}
A_3	2.4714130×10^{-3}
A_4	$-8.6595960 \times 10^{-5}$
A_5	2.7259270×10^{-5}

熱的性質 Thermal Properties	
T_g (°C)	454
T_s (°C)	506
$T_{10^{14.5}}$ (°C)	431
$T_{10^{13}}$ (°C)	448
$T_{10^{7.6}}$ (°C)	553
$\alpha_{-30/+70}$ ($10^{-7}/K$)	95
$\alpha_{100/300}$ ($10^{-7}/K$)	121
λ [W/(m·K)]	0.920
C_p [kJ/(kg·K)]	0.648

部分分散 Partial dispersions	
$n_c - n_t$	0.022651
$n_d - n_c$	0.009745
$n_F - n_d$	0.024387
$n_g - n_F$	0.021285
$n_{c'} - n_t$	0.024163
$n_e - n_{c'}$	0.016261
$n_{F'} - n_e$	0.018490
$n_g - n_{F'}$	0.019154

機械的性質 Mechanical Properties	
H_K	440 (4)
F_A	370
E (GPa)	89
G (GPa)	35.6
μ	0.256
σ_b (MPa)	75

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.6636	$P'_{c,t}$	0.6953
$P_{d,c}$	0.2855	$P'_{d,c}$	0.2369
$P_{e,d}$	0.2352	$P'_{e,d}$	0.2310
$P_{F,e}$	0.4793	$P'_{F,e}$	0.5321
$P_{g,F}$	0.6236	$P'_{g,F}$	0.5512
$P_{h,g}$	0.5706	$P'_{h,g}$	0.5604
$P_{i,h}$		$P'_{i,h}$	

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	-0.2	-2.7
-20/ 0	-0.2	-2.3
0/+20	-0.2	-2.0
+20/+40	-0.2	-1.8
+40/+60	-0.2	-1.6
+60/+80	-0.2	-1.5

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.99

比重 Specific Gravity	
d	3.69

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0053
$\Delta P_{c,A'}$	-0.0023
$\Delta P_{g,d}$	0.0211
$\Delta P_{g,F}$	0.0187
$\Delta P_{i,g}$	

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-FDS910				
Code	821-241				
作成 201104					

着色度 Coloration Code	
$\lambda 80(\lambda 70)/\lambda 5$	490/375

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80/\lambda \tau 5$	421/374