

MC-FDS910-50

822-240

$n_d = 1.82165$ $\nu_d = 24.04$ $n_F - n_C = 0.034179$
 $n_e = 1.82969$ $\nu_e = 23.84$ $n_{F'} - n_{C'} = 0.034798$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.78921
n_s	852.11	1.79624
$n_{A'}$	768.19	1.80151
n_r	706.52	1.80661
n_c	656.27	1.81190
$n_{c'}$	643.85	1.81341
n_{633}	632.80	1.81484
n_D	589.29	1.82136
n_d	587.56	1.82165
n_e	546.07	1.82969
n_F	486.13	1.84607
$n_{F'}$	479.99	1.84821
n_g	435.84	1.86739
n_h	404.66	1.88689
n_i	365.01	

分散式の定数 Constants of dispersion formula	
A_0	3.1667902
A_1	$-1.3141416 \times 10^{-2}$
A_2	4.7178656×10^{-2}
A_3	2.2684284×10^{-3}
A_4	$-5.3672387 \times 10^{-5}$
A_5	2.5328422×10^{-5}

部分分散 Partial dispersions	
$n_c - n_t$	0.022682
$n_d - n_c$	0.009759
$n_F - n_d$	0.024420
$n_g - n_F$	0.021319
$n_{c'} - n_t$	0.024197
$n_e - n_{c'}$	0.016282
$n_{F'} - n_e$	0.018516
$n_g - n_{F'}$	0.019185

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.6636	$P'_{c',t}$	0.6954
$P_{d,c}$	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
$P_{g,F}$	0.6237	$P'_{g,F'}$	0.5513
$P_{h,g}$	0.5705	$P'_{h,g}$	0.5604
$P_{i,h}$		$P'_{i,h}$	

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0053
$\Delta P_{c,A'}$	-0.0022
$\Delta P_{e,d}$	0.0212
$\Delta P_{g,F}$	0.0187
$\Delta P_{i,g}$	

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

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

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

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

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β_c	165
β_d	170
β_F	182
β_g	193

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

比重 Specific Gravity	
d	3.69

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.996	0.993
1500	0.996	0.992
1400	0.997	0.995
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.999
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	0.999	0.999
800	0.998	0.997
780	0.999	0.998
750	0.998	0.996
700	0.997	0.994
650	0.996	0.992
600	0.996	0.993
550	0.995	0.990
500	0.988	0.975
480	0.982	0.965
460	0.985	0.952
440	0.964	0.930
420	0.941	0.885
400	0.859	0.737
390	0.729	0.531
380	0.451	0.204
370	0.124	0.015
360		
350		
340		
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	470/375

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	405/373

備考 Remarks	
作成 201104	