

MC-FDS2

002-193

$n_d = 2.00178$ $\nu_d = 19.32$ $n_F - n_C = 0.051840$
 $n_e = 2.01394$ $\nu_e = 19.17$ $n_{F'} - n_{C'} = 0.052898$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.95448
n_s	852.11	1.96440
$n_{A'}$	768.19	1.97198
n_r	706.52	1.97941
n_c	656.27	1.98721
$n_{c'}$	643.85	1.98946
n_{633}	632.80	1.99158
n_D	589.29	2.00134
n_d	587.56	2.00178
n_e	546.07	2.01394
n_F	486.13	2.03905
$n_{F'}$	479.99	2.04235
n_g	435.84	2.07247
n_h	404.66	2.10391
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	2
D_H	1

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	3.7715810
A_1	$-2.0445364 \times 10^{-2}$
A_2	6.3942579×10^{-2}
A_3	8.3545470×10^{-3}
A_4	$-8.2031984 \times 10^{-4}$
A_5	1.0279507×10^{-4}

熱的性質 Thermal Properties	
T_g (°C)	483
T_s (°C)	527
$T_{10^{14.5}}$ (°C)	457
$T_{10^{13}}$ (°C)	477
$T_{10^{7.6}}$ (°C)	565
$\alpha_{-30/+70}$ ($10^{-7}/K$)	84
$\alpha_{100/300}$ ($10^{-7}/K$)	101
λ [W/(m·K)]	0.780
C_p [kJ/(kg·K)]	0.430

部分分散 Partial dispersions	
$n_c - n_t$	0.032729
$n_d - n_c$	0.014576
$n_F - n_d$	0.037264
$n_g - n_F$	0.033418
$n_{c'} - n_t$	0.034977
$n_e - n_{c'}$	0.024480
$n_{F'} - n_e$	0.028418
$n_g - n_{F'}$	0.030112

機械的性質 Mechanical Properties	
H_K	385 (4)
F_A	300
E (GPa)	87
G (GPa)	35.0
μ	0.258
σ_b (MPa)	59

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.6313	$P'_{c',t}$	0.6612
$P_{d,c}$	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
$P_{g,F}$	0.6446	$P'_{g,F'}$	0.5692
$P_{h,g}$	0.6066	$P'_{h,g}$	0.5944
$P_{i,h}$		$P'_{i,h}$	

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	5.4	2.8
-20/ 0	5.9	3.6
0/+20	6.3	4.3
+20/+40	6.8	5.0
+40/+60	7.2	5.7
+60/+80	7.6	6.3

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	-0.0049
$\Delta P_{c,A'}$	-0.0066
$\Delta P_{e,d}$	0.0357
$\Delta P_{g,F}$	0.0312
$\Delta P_{i,g}$	

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β_c	163
β_d	168
β_F	181
β_g	188

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.92

比重 Specific Gravity	
d	5.09

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

備考 Remarks	
作成 201104	