

MC-NBFD135

808-409

$n_d = 1.80834$ $\nu_d = 40.92$ $n_F - n_C = 0.019753$
 $n_e = 1.81303$ $\nu_e = 40.67$ $n_{F'} - n_{C'} = 0.019992$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.78772
n_s	852.11	1.79255
$n_{A'}$	768.19	1.79599
n_r	706.52	1.79921
n_c	656.27	1.80247
$n_{c'}$	643.85	1.80340
n_{633}	632.80	1.80426
n_D	589.29	1.80817
n_d	587.56	1.80834
n_e	546.07	1.81303
n_F	486.13	1.82223
$n_{F'}$	479.99	1.82339
n_g	435.84	1.83346
n_h	404.66	1.84302
n_i	365.01	1.85990

分散式の定数 Constants of dispersion formula	
A_0	3.1819698
A_1	$-1.4926522 \times 10^{-2}$
A_2	2.8987649×10^{-2}
A_3	1.2223654×10^{-3}
A_4	$-5.2916688 \times 10^{-5}$
A_5	4.7807227×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.014758
$n_d - n_c$	0.005865
$n_F - n_d$	0.013888
$n_g - n_F$	0.011229
$n_{c'} - n_t$	0.015681
$n_e - n_{c'}$	0.009635
$n_{F'} - n_e$	0.010357
$n_g - n_{F'}$	0.010067

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7471	$P'_{c,t}$	0.7844
$P_{d,c}$	0.2969	$P'_{d,c}$	0.2472
$P_{e,d}$	0.2376	$P'_{e,d}$	0.2347
$P_{F,e}$	0.4655	$P'_{F,e}$	0.5181
$P_{g,F}$	0.5685	$P'_{g,F}$	0.5036
$P_{h,g}$	0.4843	$P'_{h,g}$	0.4785
$P_{i,h}$	0.8541	$P'_{i,h}$	0.8439

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0100
$\Delta P_{c,A'}$	0.0018
$\Delta P_{e,d}$	-0.0069
$\Delta P_{g,F}$	-0.0061
$\Delta P_{i,g}$	-0.0406

化学的性質 Chemical Properties	
D_W	1
D_A	3
T_{Blue}	3
D_{NaOH}	1
D_{STPP}	2
D_o	2
D_H	1

熱的性質 Thermal Properties	
T_g (°C)	547
T_s (°C)	588
$T_{10^{14.5}}$ (°C)	522
$T_{10^{13}}$ (°C)	539
$T_{10^{7.6}}$ (°C)	625
$\alpha_{-30/+70}$ ($10^{-7}/K$)	62
$\alpha_{100/300}$ ($10^{-7}/K$)	80
λ [W/(m·K)]	0.794
C_p [kJ/(kg·K)]	0.463

機械的性質 Mechanical Properties	
H_K	595 (6)
F_A	70
E (GPa)	113
G (GPa)	43.4
μ	0.303
σ_b (MPa)	105

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	7.7	5.2
-20/ 0	7.7	5.6
0/+20	7.8	6.0
+20/+40	7.9	6.3
+40/+60	8.0	6.6
+60/+80	8.2	6.9

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β_c	136
β_d	136
β_F	138
β_g	138

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.32

比重 Specific Gravity	
d	4.67

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.997
1500	0.998	0.997
1400	0.999	0.997
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	0.998
800	0.999	0.999
780	0.999	0.998
750	0.999	0.999
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.998	0.995
480	0.997	0.994
460	0.994	0.989
440	0.993	0.985
420	0.989	0.978
400	0.981	0.963
390	0.972	0.945
380	0.956	0.914
370	0.921	0.848
360	0.844	0.713
350	0.671	0.451
340	0.376	0.142
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	395/335

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	366/335

備考 Remarks	
作成 201104	