

MC-LAC130

694-532

$n_d = 1.69350$ $\nu_d = 53.20$ $n_F - n_C = 0.013035$
 $n_e = 1.69661$ $\nu_e = 52.97$ $n_{F'} - n_{C'} = 0.013152$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.67894
n_s	852.11	1.68257
$n_{A'}$	768.19	1.68504
n_r	706.52	1.68730
n_c	656.27	1.68955
$n_{c'}$	643.85	1.69017
n_{633}	632.80	1.69076
n_D	589.29	1.69338
n_d	587.56	1.69350
n_e	546.07	1.69661
n_F	486.13	1.70258
$n_{F'}$	479.99	1.70333
n_g	435.84	1.70970
n_h	404.66	1.71564
n_i	365.01	1.72581

分散式の定数 Constants of dispersion formula	
A_0	2.8134120
A_1	$-1.3324480 \times 10^{-2}$
A_2	1.9278650×10^{-2}
A_3	4.1244520×10^{-4}
A_4	$-9.9404320 \times 10^{-6}$
A_5	9.6220240×10^{-7}

部分分散 Partial dispersions	
$n_c - n_t$	0.010604
$n_d - n_c$	0.003955
$n_F - n_d$	0.009080
$n_g - n_F$	0.007124
$n_{c'} - n_t$	0.011232
$n_e - n_{c'}$	0.006434
$n_{F'} - n_e$	0.006718
$n_g - n_{F'}$	0.006379

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8135	$P'_{c,t}$	0.8540
$P_{d,c}$	0.3034	$P'_{d,c}$	0.2530
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2362
$P_{F,e}$	0.4582	$P'_{F,e}$	0.5108
$P_{g,F}$	0.5465	$P'_{g,F}$	0.4850
$P_{h,g}$	0.4553	$P'_{h,g}$	0.4513
$P_{i,h}$	0.7803	$P'_{i,h}$	0.7733

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0190
$\Delta P_{c,A'}$	0.0042
$\Delta P_{e,d}$	-0.0074
$\Delta P_{g,F}$	-0.0059
$\Delta P_{i,g}$	-0.0348

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	4
D_{NaOH}	2
D_{STPP}	3
D_o	3
D_H	1

熱的性質 Thermal Properties	
T_g (°C)	525
T_s (°C)	569
$T_{10^{14.5}}$ (°C)	501
$T_{10^{13}}$ (°C)	520
$T_{10^{7.6}}$ (°C)	610
$\alpha_{-30/+70}$ ($10^{-7}/K$)	69
$\alpha_{100/300}$ ($10^{-7}/K$)	86
λ [W/(m·K)]	1.021
C_p [kJ/(kg·K)]	0.687

機械的性質 Mechanical Properties	
H_K	650 (7)
F_A	80
E (GPa)	114
G (GPa)	44.0
μ	0.289
σ_b (MPa)	114

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	4.3	2.0
-20/0	4.4	2.5
0/+20	4.6	2.9
+20/+40	4.7	3.2
+40/+60	4.7	3.4
+60/+80	4.8	3.6

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β_c	130
β_d	129
β_F	128
β_g	128

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.01

比重 Specific Gravity	
d	3.52

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	0.998
550	0.999	0.999
500	0.999	0.999
480	0.999	0.997
460	0.998	0.996
440	0.997	0.994
420	0.996	0.991
400	0.994	0.987
390	0.990	0.980
380	0.983	0.966
370	0.971	0.943
360	0.947	0.897
350	0.900	0.811
340	0.835	0.698
330	0.741	0.549
320	0.614	0.377
310	0.470	0.221
300	0.341	0.116
290	0.203	0.041
280		

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	365/295

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	349/292

備考 Remarks	
作成 201104	