

MC-BACD5N

589-613

$n_d = 1.58913$ $\nu_d = 61.25$ $n_F - n_C = 0.009619$
 $n_e = 1.59142$ $\nu_e = 61.03$ $n_{F'} - n_{C'} = 0.009690$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.57792
n_s	852.11	1.58084
$n_{A'}$	768.19	1.58276
n_r	706.52	1.58449
n_c	656.27	1.58618
$n_{c'}$	643.85	1.58665
n_{633}	632.80	1.58709
n_D	589.29	1.58904
n_d	587.56	1.58913
n_e	546.07	1.59142
n_F	486.13	1.59580
$n_{F'}$	479.99	1.59634
n_g	435.84	1.60097
n_h	404.66	1.60524
n_i	365.01	1.61247

分散式の定数 Constants of dispersion formula	
A_0	2.4895100
A_1	$-1.2244960 \times 10^{-2}$
A_2	1.2942620×10^{-2}
A_3	3.4904490×10^{-4}
A_4	$-1.7772280 \times 10^{-5}$
A_5	9.1137190×10^{-7}

部分分散 Partial dispersions	
$n_c - n_t$	0.008264
$n_d - n_c$	0.002948
$n_F - n_d$	0.006671
$n_g - n_F$	0.005168
$n_{c'} - n_t$	0.008736
$n_e - n_{c'}$	0.004771
$n_{F'} - n_e$	0.004919
$n_g - n_{F'}$	0.004625

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8591	$P'_{c',t}$	0.9015
$P_{d,c}$	0.3065	$P'_{d,c'}$	0.2555
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2368
$P_{F,e}$	0.4549	$P'_{F',e}$	0.5076
$P_{g,F}$	0.5373	$P'_{g,F'}$	0.4773
$P_{h,g}$	0.4436	$P'_{h,g}$	0.4404
$P_{i,h}$	0.7523	$P'_{i,h}$	0.7467

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0271
$\Delta P_{c,A'}$	0.0041
$\Delta P_{g,d}$	-0.0014
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0034

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

熱的性質 Thermal Properties	
T_g (°C)	521
T_s (°C)	562
$T_{10^{14.5}}$ (°C)	493
$T_{10^{13}}$ (°C)	514
$T_{10^{7.6}}$ (°C)	604
$\alpha_{-30/+70}$ ($10^{-7}/K$)	68
$\alpha_{100/300}$ ($10^{-7}/K$)	88
λ [W/(m·K)]	1.197
C_p [kJ/(kg·K)]	0.816

機械的性質 Mechanical Properties	
H_K	600 (6)
F_A	90
E (GPa)	98
G (GPa)	38.9
μ	0.254
σ_b (MPa)	104

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	3.8	1.6
-20/ 0	3.7	1.9
0/+20	3.7	2.2
+20/+40	3.8	2.4
+40/+60	3.8	2.6
+60/+80	3.9	2.8

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β_c	97
β_d	97
β_F	97
β_g	97

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.13

比重 Specific Gravity	
d	2.82

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.995	0.990
1500	0.994	0.989
1400	0.991	0.981
1300	0.996	0.992
1200	0.996	0.992
1100	0.996	0.991
1060	0.995	0.990
1050	0.996	0.991
1000	0.996	0.991
950	0.996	0.991
900	0.996	0.992
850	0.996	0.992
830	0.996	0.992
800	0.996	0.993
780	0.997	0.994
750	0.998	0.996
700	0.999	0.997
650	0.999	0.997
600	0.999	0.997
550	0.999	0.997
500	0.999	0.997
480	0.999	0.997
460	0.999	0.998
440	0.998	0.997
420	0.998	0.995
400	0.997	0.995
390	0.996	0.992
380	0.994	0.988
370	0.990	0.980
360	0.982	0.965
350	0.958	0.919
340	0.928	0.861
330	0.866	0.750
320	0.775	0.600
310	0.639	0.408
300	0.482	0.233
290	0.322	0.104
280	0.193	0.037

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	345/285

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	334/283

備考 Remarks	
作成 201104	