

MP-NBFD10-20

835-373

$n_d = 1.83461$ $\nu_d = 37.29$ $n_F - n_C = 0.022382$
 $n_e = 1.83992$ $\nu_e = 37.04$ $n_{F'} - n_{C'} = 0.022678$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.81170
n_s	852.11	1.81703
$n_{A'}$	768.19	1.82081
n_r	706.52	1.82438
n_c	656.27	1.82802
$n_{c'}$	643.85	1.82905
n_{633}	632.80	1.83003
n_D	589.29	1.83442
n_d	587.56	1.83461
n_e	546.07	1.83992
n_F	486.13	1.85040
$n_{F'}$	479.99	1.85173
n_g	435.84	1.86330
n_h	404.66	1.87442
n_i	365.01	1.89454

化学的性質 Chemical Properties	
D_W	1
D_A	3
T_{Blue}	3
D_{NaOH}	1
D_{STPP}	1
D_0	2
D_H	1

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.999	0.998
1500	0.999	0.998
1400	0.999	0.998
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.997
950	0.999	0.997
900	0.999	0.997
850	0.999	0.998
830	0.999	0.998
800	0.998	0.997
780	0.999	0.998
750	0.999	0.997
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.997
500	0.994	0.989
480	0.990	0.981
460	0.985	0.970
440	0.977	0.955
420	0.964	0.929
400	0.936	0.876
390	0.909	0.827
380	0.863	0.745
370	0.776	0.603
360	0.601	0.361
350	0.331	0.109
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	3.2722586
A_1	$-1.8817211 \times 10^{-2}$
A_2	2.7264508×10^{-2}
A_3	3.2789193×10^{-3}
A_4	$-3.2827672 \times 10^{-4}$
A_5	2.1743362×10^{-5}

熱的性質 Thermal Properties	
T_g (°C)	567
T_s (°C)	608
$T_{10^{14.5}}$ (°C)	537
$T_{10^{13}}$ (°C)	558
$T_{10^{7.6}}$ (°C)	641
$\alpha_{-30/+70}$ ($10^{-7}/K$)	61
$\alpha_{100/300}$ ($10^{-7}/K$)	77
λ [W/(m·K)]	0.878
C_p [kJ/(kg·K)]	0.519

部分分散 Partial dispersions	
$n_c - n_t$	0.016323
$n_d - n_c$	0.006592
$n_F - n_d$	0.015790
$n_g - n_F$	0.012900
$n_{c'} - n_t$	0.017356
$n_e - n_{c'}$	0.010871
$n_{F'} - n_e$	0.011807
$n_g - n_{F'}$	0.011571

機械的性質 Mechanical Properties	
H_K	720 (7)
F_A	50
E (GPa)	118
G (GPa)	45.3
μ	0.300
σ_b (MPa)	105

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7293	$P'_{c,t}$	0.7653
$P_{d,c}$	0.2945	$P'_{d,c}$	0.2451
$P_{e,d}$	0.2373	$P'_{e,d}$	0.2342
$P_{F,e}$	0.4681	$P'_{F,e}$	0.5206
$P_{g,F}$	0.5764	$P'_{g,F}$	0.5102
$P_{h,g}$	0.4966	$P'_{h,g}$	0.4902
$P_{i,h}$	0.8992	$P'_{i,h}$	0.8875

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	6.6	4.1
-20/ 0	6.8	4.7
0/+20	6.9	5.1
+20/+40	7.1	5.5
+40/+60	7.3	5.9
+60/+80	7.5	6.2

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0092
$\Delta P_{c,A'}$	0.0000
$\Delta P_{g,d}$	-0.0050
$\Delta P_{g,F}$	-0.0047
$\Delta P_{i,g}$	-0.0153

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β_c	173
β_d	173
β_F	174
β_g	176

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.97

比重 Specific Gravity	
d	4.39

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	445/345

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	386/346

備考 Remarks	
作成 201104	