

M-NBF1

743-493

$n_d = 1.74330$ $\nu_d = 49.33$ $n_F - n_C = 0.015069$
 $n_e = 1.74689$ $\nu_e = 49.07$ $n_{F'} - n_{C'} = 0.015221$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.72693
n_s	852.11	1.73091
$n_{A'}$	768.19	1.73367
n_r	706.52	1.73621
n_c	656.27	1.73876
$n_{c'}$	643.85	1.73948
n_{633}	632.80	1.74015
n_D	589.29	1.74317
n_d	587.56	1.74330
n_e	546.07	1.74689
n_F	486.13	1.75383
$n_{F'}$	479.99	1.75470
n_g	435.84	1.76216
n_h	404.66	1.76913
n_i	365.01	1.78115

分散式の定数 Constants of dispersion formula	
A_0	2.9752450
A_1	$-1.4250160 \times 10^{-2}$
A_2	2.1400740×10^{-2}
A_3	9.7553370×10^{-4}
A_4	$-6.9795300 \times 10^{-5}$
A_5	4.1149240×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.011839
$n_d - n_c$	0.004535
$n_F - n_d$	0.010534
$n_g - n_F$	0.008328
$n_{c'} - n_t$	0.012557
$n_e - n_{c'}$	0.007407
$n_{F'} - n_e$	0.007814
$n_g - n_{F'}$	0.007458

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7857	$P'_{c,t}$	0.8250
$P_{d,c}$	0.3009	$P'_{d,c}$	0.2508
$P_{e,d}$	0.2382	$P'_{e,d}$	0.2359
$P_{F,e}$	0.4608	$P'_{F,e}$	0.5134
$P_{g,F}$	0.5527	$P'_{g,F}$	0.4900
$P_{h,g}$	0.4623	$P'_{h,g}$	0.4577
$P_{i,h}$	0.7975	$P'_{i,h}$	0.7896

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0093
$\Delta P_{c,A'}$	0.0017
$\Delta P_{g,d}$	-0.0076
$\Delta P_{g,F}$	-0.0068
$\Delta P_{i,g}$	-0.0449

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	4
D_{NaOH}	1
D_{STPP}	2
D_0	3
D_H	1

熱的性質 Thermal Properties	
T_g (°C)	560
T_s (°C)	600
$T_{10^{14.5}}$ (°C)	535
$T_{10^{13}}$ (°C)	552
$T_{10^{7.6}}$ (°C)	640
$\alpha_{-30/+70}$ ($10^{-7}/K$)	57
$\alpha_{100/300}$ ($10^{-7}/K$)	73
λ [W/(m·K)]	0.891
C_p [kJ/(kg·K)]	0.565

機械的性質 Mechanical Properties	
H_K	665 (7)
F_A	70
E (GPa)	111
G (GPa)	42.3
μ	0.307
σ_b (MPa)	109

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	7.8	5.4
-20/ 0	7.8	5.8
0/+20	8.0	6.2
+20/+40	8.1	6.6
+40/+60	8.3	6.9
+60/+80	8.4	7.2

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.26

比重 Specific Gravity	
d	4.25

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-NBF1		L-LAM60	Q-LAF010S	
Code	743-493		743-493	743-493	
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.995
1500	0.997	0.994
1400	0.995	0.989
1300	0.998	0.995
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	0.999
800	0.999	0.999
780	0.999	0.999
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	0.999	0.999
480	0.999	0.998
460	0.998	0.996
440	0.997	0.993
420	0.995	0.989
400	0.991	0.983
390	0.988	0.976
380	0.981	0.963
370	0.970	0.941
360	0.950	0.902
350	0.918	0.842
340	0.871	0.758
330	0.807	0.651
320	0.712	0.507
310	0.593	0.351
300	0.503	0.253
290	0.382	0.146
280	0.219	0.048
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	370/280	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$	345/280	