

M-NBFD130

806-407

$n_d = 1.80610$ $\nu_d = 40.73$ $n_F - n_C = 0.019791$
 $n_e = 1.81080$ $\nu_e = 40.48$ $n_{F'} - n_{C'} = 0.020031$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.78543
n_s	852.11	1.79028
$n_{A'}$	768.19	1.79373
n_r	706.52	1.79695
n_c	656.27	1.80022
$n_{c'}$	643.85	1.80115
n_{633}	632.80	1.80202
n_D	589.29	1.80593
n_d	587.56	1.80610
n_e	546.07	1.81080
n_F	486.13	1.82002
$n_{F'}$	479.99	1.82118
n_g	435.84	1.83128
n_h	404.66	1.84090
n_i	365.01	1.85794

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.995
1500	0.998	0.995
1400	0.997	0.993
1300	0.999	0.998
1200	0.999	0.996
1100	0.998	0.994
1060	0.998	0.995
1050	0.997	0.993
1000	0.997	0.992
950	0.997	0.992
900	0.997	0.991
850	0.996	0.991
830	0.997	0.991
800	0.996	0.993
780	0.997	0.992
750	0.997	0.993
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.998	0.996
480	0.996	0.992
460	0.993	0.986
440	0.989	0.979
420	0.984	0.968
400	0.971	0.943
390	0.957	0.916
380	0.931	0.868
370	0.882	0.779
360	0.778	0.605
350	0.578	0.334
340	0.309	0.095
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
λ 80 (λ 70) / λ 5	405/340
着色度 (内部透過率) Coloration of Internal Transmittance	
λ τ 80 / λ τ 5	372/337

分散式の定数 Constants of dispersion formula	
A_0	3.1737940
A_1	$-1.4986580 \times 10^{-2}$
A_2	2.9067410×10^{-2}
A_3	1.2048290×10^{-3}
A_4	$-5.3551580 \times 10^{-5}$
A_5	5.2713500×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	567
T_s (°C)	604
$T_{10^{14.5}}$ (°C)	538
$T_{10^{13}}$ (°C)	559
$T_{10^{7.6}}$ (°C)	647
$\alpha_{-30/+70}$ ($10^{-7}/K$)	58
$\alpha_{100/300}$ ($10^{-7}/K$)	74
λ [W/(m·K)]	0.917
C_p [kJ/(kg·K)]	0.548

部分分散 Partial dispersions	
$n_c - n_t$	0.014797
$n_d - n_c$	0.005875
$n_F - n_d$	0.013916
$n_g - n_F$	0.011267
$n_{c'} - n_t$	0.015722
$n_e - n_{c'}$	0.009652
$n_{F'} - n_e$	0.010379
$n_g - n_{F'}$	0.010102

機械的性質 Mechanical Properties	
H_K	610 (6)
F_A	76
E (GPa)	111
G (GPa)	42.7
μ	0.304
σ_b (MPa)	92

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7477	$P'_{c,t}$	0.7849
$P_{d,c}$	0.2969	$P'_{d,c}$	0.2471
$P_{e,d}$	0.2376	$P'_{e,d}$	0.2347
$P_{F,e}$	0.4656	$P'_{F,e}$	0.5181
$P_{g,F}$	0.5693	$P'_{g,F}$	0.5043
$P_{h,g}$	0.4860	$P'_{h,g}$	0.4802
$P_{i,h}$	0.8607	$P'_{i,h}$	0.8504

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	5.3
-20/ 0	7.8	5.8
0/+20	7.9	6.2
+20/+40	8.1	6.5
+40/+60	8.2	6.9
+60/+80	8.4	7.2

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	2.20

比重 Specific Gravity	
d	4.56

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0114
$\Delta P_{c,A'}$	0.0021
$\Delta P_{g,d}$	-0.0065
$\Delta P_{g,F}$	-0.0056
$\Delta P_{i,g}$	-0.0340

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-NBFD130	(P-LASF47)	L-LAH81		D-ZLAF52A
Code	806-407	806-409	806-404		806-409
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