

TAC8

729-547

$n_d = 1.72916$ $\nu_d = 54.67$ $n_F - n_C = 0.013337$
 $n_e = 1.73234$ $\nu_e = 54.44$ $n_{F'} - n_{C'} = 0.013452$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.71407
n_s	852.11	1.71788
$n_{A'}$	768.19	1.72045
n_r	706.52	1.72279
n_c	656.27	1.72510
$n_{c'}$	643.85	1.72575
n_{633}	632.80	1.72635
n_D	589.29	1.72904
n_d	587.56	1.72916
n_e	546.07	1.73234
n_F	486.13	1.73844
$n_{F'}$	479.99	1.73920
n_g	435.84	1.74571
n_h	404.66	1.75176
n_i	365.01	1.76205

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.993	0.986
1500	0.992	0.983
1400	0.991	0.982
1300	0.999	0.998
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	0.999
460	0.999	0.997
440	0.997	0.995
420	0.996	0.991
400	0.993	0.985
390	0.990	0.979
380	0.984	0.968
370	0.975	0.950
360	0.958	0.918
350	0.931	0.867
340	0.894	0.799
330	0.842	0.709
320	0.772	0.597
310	0.687	0.471
300	0.602	0.363
290	0.502	0.252
280	0.362	0.131

着色度 Coloration Code	
λ 80 (λ 70) / λ 5	365/270
着色度 Coloration of Internal Transmittance (内部透過率)	
λ τ 80 / λ τ 5	340/270

分散式の定数 Constants of dispersion formula	
A_0	2.9324178
A_1	$-1.4603156 \times 10^{-2}$
A_2	2.1121636×10^{-2}
A_3	4.8240144×10^{-5}
A_4	4.9669475×10^{-5}
A_5	$-2.4904491 \times 10^{-6}$

熱的性質 Thermal Properties	
T_g (°C)	679
T_s (°C)	707
$T_{10^{14.5}}$ (°C)	652
$T_{10^{13}}$ (°C)	667
$T_{10^{7.6}}$ (°C)	739
$\alpha_{-30/+70}$ ($10^{-7}/K$)	60
$\alpha_{100/300}$ ($10^{-7}/K$)	73
λ [W/(m·K)]	0.915
C_p [kJ/(kg·K)]	0.549

部分分散 Partial dispersions	
$n_c - n_t$	0.011033
$n_d - n_c$	0.004058
$n_F - n_d$	0.009279
$n_g - n_F$	0.007271
$n_{c'} - n_t$	0.011679
$n_e - n_{c'}$	0.006590
$n_{F'} - n_e$	0.006862
$n_g - n_{F'}$	0.006510

機械的性質 Mechanical Properties	
H_K	730 (7)
F_A	60
E (GPa)	122
G (GPa)	48.1
μ	0.273
σ_b (MPa)	

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8272	$P'_{c,t}$	0.8682
$P_{d,c}$	0.3043	$P'_{d,c}$	0.2536
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2362
$P_{F,e}$	0.4574	$P'_{F,e}$	0.5101
$P_{g,F}$	0.5452	$P'_{g,F}$	0.4839
$P_{h,g}$	0.4536	$P'_{h,g}$	0.4497
$P_{i,h}$	0.7716	$P'_{i,h}$	0.7650

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	3.2	0.8
-20/ 0	3.2	1.2
0/+20	3.3	1.6
+20/+40	3.4	1.9
+40/+60	3.5	2.2
+60/+80	3.7	2.5

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.48

比重 Specific Gravity	
d	4.05

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0259
$\Delta P_{c,A'}$	0.0055
$\Delta P_{g,d}$	-0.0062
$\Delta P_{g,F}$	-0.0046
$\Delta P_{i,g}$	-0.0323

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
Glass Type	HOYA	SCHOTT	OHARA	HIKARI	CDGM
	TAC8	N-LAK34	S-LAL18	E-LAK18	H-LAK52
Code	729-547	729-545	729-547	729-547	729-547

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