

TAF5

816-466

$n_d = 1.81600$ $\nu_d = 46.57$ $n_F - n_C = 0.017522$
 $n_e = 1.82017$ $\nu_e = 46.32$ $n_{F'} - n_{C'} = 0.017707$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.79722
n_s	852.11	1.80172
$n_{A'}$	768.19	1.80487
n_r	706.52	1.80780
n_c	656.27	1.81074
$n_{c'}$	643.85	1.81157
n_{633}	632.80	1.81235
n_D	589.29	1.81584
n_d	587.56	1.81600
n_e	546.07	1.82017
n_F	486.13	1.82827
$n_{F'}$	479.99	1.82928
n_g	435.84	1.83801
n_h	404.66	1.84619
n_i	365.01	1.86034

分散式の定数 Constants of dispersion formula	
A_0	3.2191571
A_1	$-1.5310562 \times 10^{-2}$
A_2	2.6362570×10^{-2}
A_3	1.0534452×10^{-3}
A_4	$-6.1660412 \times 10^{-5}$
A_5	3.9733897×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.013525
$n_d - n_c$	0.005255
$n_F - n_d$	0.012267
$n_g - n_F$	0.009744
$n_{c'} - n_t$	0.014355
$n_e - n_{c'}$	0.008597
$n_{F'} - n_e$	0.009110
$n_g - n_{F'}$	0.008729

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7719	$P'_{c,t}$	0.8107
$P_{d,c}$	0.2999	$P'_{d,c}$	0.2499
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2356
$P_{F,e}$	0.4620	$P'_{F,e}$	0.5145
$P_{g,F}$	0.5561	$P'_{g,F}$	0.4930
$P_{h,g}$	0.4667	$P'_{h,g}$	0.4619
$P_{i,h}$	0.8077	$P'_{i,h}$	0.7993

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0084
$\Delta P_{c,A'}$	0.0019
$\Delta P_{g,d}$	-0.0094
$\Delta P_{g,F}$	-0.0083
$\Delta P_{i,g}$	-0.0547

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

熱的性質 Thermal Properties	
T_g (°C)	698
T_s (°C)	736
$T_{10^{14.5}}$ (°C)	674
$T_{10^{13}}$ (°C)	691
$T_{10^{7.6}}$ (°C)	766
$\alpha_{-30/+70}$ ($10^{-7}/K$)	63
$\alpha_{100/300}$ ($10^{-7}/K$)	77
λ [W/(m·K)]	0.832
C_p [kJ/(kg·K)]	0.582

機械的性質 Mechanical Properties	
H_K	755 (7)
F_A	60
E (GPa)	123
G (GPa)	47.5
μ	0.300
σ_b (MPa)	

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	4.3	1.8
-20/ 0	4.3	2.2
0/+20	4.3	2.5
+20/+40	4.5	2.9
+40/+60	4.6	3.2
+60/+80	4.8	3.5

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

比重 Specific Gravity	
d	5.06

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAF5		S-LAH59		
Code	816-466		816-466		
作成 201104					

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550		
1500		
1400		
1300		
1200		
1100		
1060		
1050		
1000		
950		
900		
850		
830		
800		
780		
750		
700	0.999	0.997
650	0.998	0.996
600	0.996	0.993
550	0.998	0.996
500	0.999	0.997
480	0.998	0.996
460	0.998	0.996
440	0.996	0.991
420	0.993	0.985
400	0.982	0.964
390	0.973	0.946
380	0.960	0.920
370	0.930	0.860
360	0.880	0.770
350	0.810	0.660
340	0.710	0.510
330	0.580	0.340
320	0.430	0.190
310	0.240	0.060
300	0.140	0.020
290		
280		
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	390/300	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$		