

TAF3

804-465

$n_d = 1.80420$ $\nu_d = 46.50$ $n_F - n_C = 0.017294$
 $n_e = 1.80831$ $\nu_e = 46.26$ $n_{F'} - n_{C'} = 0.017474$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.78551
n_s	852.11	1.79001
$n_{A'}$	768.19	1.79316
n_r	706.52	1.79607
n_c	656.27	1.79900
$n_{c'}$	643.85	1.79983
n_{633}	632.80	1.80060
n_D	589.29	1.80405
n_d	587.56	1.80420
n_e	546.07	1.80831
n_F	486.13	1.81630
$n_{F'}$	479.99	1.81730
n_g	435.84	1.82594
n_h	404.66	1.83408
n_i	365.01	1.84820

分散式の定数 Constants of dispersion formula	
A_0	3.1743707
A_1	$-1.4110466 \times 10^{-2}$
A_2	2.8862637×10^{-2}
A_3	3.3559490×10^{-5}
A_4	8.0422109×10^{-5}
A_5	$-2.8956744 \times 10^{-6}$

部分分散 Partial dispersions	
$n_c - n_t$	0.013495
$n_d - n_c$	0.005197
$n_F - n_d$	0.012097
$n_g - n_F$	0.009648
$n_{c'} - n_t$	0.014318
$n_e - n_{c'}$	0.008488
$n_{F'} - n_e$	0.008986
$n_g - n_{F'}$	0.008645

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7803	$P'_{c,t}$	0.8194
$P_{d,c}$	0.3005	$P'_{d,c}$	0.2503
$P_{e,d}$	0.2379	$P'_{e,d}$	0.2354
$P_{F,e}$	0.4616	$P'_{F,e}$	0.5142
$P_{g,F}$	0.5579	$P'_{g,F}$	0.4947
$P_{h,g}$	0.4706	$P'_{h,g}$	0.4658
$P_{i,h}$	0.8161	$P'_{i,h}$	0.8077

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0172
$\Delta P_{c,A'}$	0.0046
$\Delta P_{g,d}$	-0.0084
$\Delta P_{g,F}$	-0.0066
$\Delta P_{i,g}$	-0.0430

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)	681
T_s (°C)	712
$T_{10^{14.5}}$ (°C)	653
$T_{10^{13}}$ (°C)	675
$T_{10^{7.6}}$ (°C)	744
$\alpha_{-30/+70}$ ($10^{-7}/K$)	63
$\alpha_{100/300}$ ($10^{-7}/K$)	75
λ [W/(m·K)]	0.828
C_p [kJ/(kg·K)]	0.480

機械的性質 Mechanical Properties	
H_K	760 (7)
F_A	60
E (GPa)	125
G (GPa)	48.1
μ	0.298
σ_b (MPa)	104

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	3.8	1.4
-20/ 0	3.8	1.7
0/+20	3.9	2.1
+20/+40	4.0	2.4
+40/+60	4.1	2.8
+60/+80	4.3	3.1

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.37

比重 Specific Gravity	
d	4.65

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.997
1500	0.998	0.995
1400	0.998	0.990
1300	0.999	0.996
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.999
1050	0.999	0.999
1000	0.999	0.998
950	0.999	0.998
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	0.998
480	0.997	0.995
460	0.996	0.993
440	0.994	0.989
420	0.991	0.982
400	0.985	0.970
390	0.979	0.959
380	0.970	0.942
370	0.952	0.906
360	0.918	0.843
350	0.866	0.750
340	0.770	0.593
330	0.596	0.355
320	0.313	0.098
310		
300		
290		
280		

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	385/320

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	356/317

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAF3	N-LASF44	S-LAH65	E-LASF015	H-ZLAF50B
Code	804-465	804-465	804-466	804-466	804-466
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