

# TAF2

# 795-454

$n_d = 1.79450$   $\nu_d = 45.39$   $n_F - n_C = 0.017505$   
 $n_e = 1.79866$   $\nu_e = 45.15$   $n_{F'} - n_{C'} = 0.017691$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.77578
$n_s$	852.11	1.78024
$n_{A'}$	768.19	1.78338
$n_r$	706.52	1.78630
$n_c$	656.27	1.78925
$n_{c'}$	643.85	1.79008
$n_{633}$	632.80	1.79085
$n_D$	589.29	1.79434
$n_d$	587.56	1.79450
$n_e$	546.07	1.79866
$n_F$	486.13	1.80675
$n_{F'}$	479.99	1.80777
$n_g$	435.84	1.81651
$n_h$	404.66	1.82472
$n_i$	365.01	1.83905

分散式の定数 Constants of dispersion formula	
$A_0$	3.1415564
$A_1$	$-1.4370304 \times 10^{-2}$
$A_2$	$2.6483051 \times 10^{-2}$
$A_3$	$9.5642714 \times 10^{-4}$
$A_4$	$-5.9411087 \times 10^{-5}$
$A_5$	$4.7039530 \times 10^{-6}$

部分分散 Partial dispersions	
$n_c - n_t$	0.013468
$n_d - n_c$	0.005250
$n_F - n_d$	0.012255
$n_g - n_F$	0.009754
$n_{c'} - n_t$	0.014297
$n_e - n_{c'}$	0.008588
$n_{F'} - n_e$	0.009103
$n_g - n_{F'}$	0.008739

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7694	$P'_{c,t}$	0.8082
$P_{d,c}$	0.2999	$P'_{d,c}$	0.2499
$P_{e,d}$	0.2380	$P'_{e,d}$	0.2355
$P_{F,e}$	0.4620	$P'_{F,e}$	0.5146
$P_{g,F}$	0.5572	$P'_{g,F}$	0.4940
$P_{h,g}$	0.4694	$P'_{h,g}$	0.4644
$P_{i,h}$	0.8185	$P'_{i,h}$	0.8098

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0114
$\Delta P_{c,A'}$	0.0032
$\Delta P_{g,d}$	-0.0110
$\Delta P_{g,F}$	-0.0093
$\Delta P_{i,g}$	-0.0518

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

熱的性質 Thermal Properties	
$T_g$ (°C)	648
$T_s$ (°C)	684
$T_{10^{14.5}}$ (°C)	625
$T_{10^{13}}$ (°C)	642
$T_{10^{7.6}}$ (°C)	712
$\alpha_{-30/+70}$ ( $10^{-7}/K$ )	60
$\alpha_{100/300}$ ( $10^{-7}/K$ )	74
$\lambda$ [W/(m·K)]	0.835
$C_p$ [kJ/(kg·K)]	0.509

機械的性質 Mechanical Properties	
$H_K$	745 (7)
$F_A$	60
$E$ (GPa)	121
$G$ (GPa)	46.6
$\mu$	0.300
$\sigma_b$ (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	4.7	2.3
-20/0	4.8	2.7
0/+20	4.9	3.1
+20/+40	5.0	3.5
+40/+60	5.2	3.8
+60/+80	5.3	4.1

光弾性定数 Photoelastic Constant	
$B$ ( $10^{-12}/Pa$ )	1.55

比重 Specific Gravity	
$d$	4.35

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAF2				
Code	795-454				
作成 201104					

内部透過率 Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5mm	$\tau$ 10mm
1550	0.996	0.992
1500	0.995	0.991
1400	0.996	0.992
1300	0.999	0.999
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	0.998
650	0.999	0.997
600	0.999	0.997
550	0.999	0.997
500	0.997	0.995
480	0.996	0.992
460	0.994	0.988
440	0.991	0.983
420	0.988	0.977
400	0.980	0.960
390	0.972	0.945
380	0.957	0.917
370	0.933	0.871
360	0.893	0.797
350	0.820	0.672
340	0.709	0.502
330	0.510	0.261
320	0.234	0.055
310	0.031	0.001
300		
290		
280		
着色度 Coloration Code		
$\lambda 80 (\lambda 70) / \lambda 5$	400/320	
着色度 (内部透過率) Coloration of Internal Transmittance		
$\lambda \tau 80 / \lambda \tau 5$		