ガラスレンズ用プレス品硝種　Glass Lens Pressed Blanks
ガラス研磨レンズ用硝種　Glass Polished Lens

Ref

TAF4

788-475

$n_d = 1.78800$　$\nu_d = 47.49$　$n_F - n_C = 0.016592$
$n_e = 1.79195$　$\nu_e = 47.26$　$n_{F'} - n_{C'} = 0.016758$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.77000
n_s	852.11	1.77435
$n_{A'}$	768.19	1.77738
n_r	706.52	1.78018
n_C	656.27	1.78300
$n_{C'}$	643.85	1.78379
n_{633}	632.80	1.78453
n_D	589.29	1.78785
n_d	587.56	1.78800
n_e	546.07	1.79195
n_F	486.13	1.79959
$n_{F'}$	479.99	1.80055
n_g	435.84	1.80878
n_h	404.66	1.81649
n_i	365.01	1.82981

分散式の定数 Constants of dispersion formula	
A_0	3.1212281
A_1	$-1.4119909 \times 10^{-2}$
A_2	2.6520622×10^{-2}
A_3	4.0415763×10^{-4}
A_4	1.4260634×10^{-5}
A_5	3.1642560×10^{-7}

部分分散 Partial dispersions	
$n_C - n_t$	0.013000
$n_d - n_C$	0.004997
$n_F - n_d$	0.011595
$n_g - n_F$	0.009187
$n_{C'} - n_t$	0.013791
$n_e - n_{C'}$	0.008157
$n_{F'} - n_e$	0.008601
$n_g - n_{F'}$	0.008230

部分分散比 Partial dispersion rates			
P_{C_t}	0.7835	$P'_{C'\_t}$	0.8230
P_{d_C}	0.3012	$P'_{d\_C'}$	0.2510
P_{e_d}	0.2381	P'_{e_d}	0.2358
P_{F_e}	0.4607	$P'_{F'\_e}$	0.5132
P_{g_F}	0.5537	$P'_{g\_F'}$	0.4911
P_{h_g}	0.4647	P'_{h_g}	0.4601
P_{i_h}	0.8029	P'_{i_h}	0.7949

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0157
$\Delta P_{C\_A'}$	0.0044
ΔP_{g_d}	-0.0110
ΔP_{g_F}	-0.0090
ΔP_{i_g}	-0.0534

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 (℃)	655
T_s (℃)	690
$T_{10^{14.5}}$ (℃)	631
$T_{10^{13}}$ (℃)	647
$T_{10^{7.6}}$ (℃)	717
$\alpha_{-30/+70℃}$ (10^{-7}/K)	58
$\alpha_{100/300℃}$ (10^{-7}/K)	74
λ [W/(m·K)]	0.830
C_P [kJ/(kg·K)]	0.491

機械的性質 Mechanical Properties	
H_K	745(7)
F_A	60
E (GPa)	122
G (GPa)	47.0
μ	0.299
σ_b (MPa)	

屈折率の温度係数 (×10^{-6}/K) Thermal coefficient of refractive indices		
(℃)	dn/dT (rel.)	dn/dT (abs.)
-40/-20	4.7	2.3
-20/ 0	4.7	2.7
0/+20	4.8	3.0
+20/+40	4.9	3.4
+40/+60	5.0	3.7
+60/+80	5.2	4.0

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

比重 Specific Gravity	
d	4.54

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.996	0.993
1500	0.996	0.992
1400	0.997	0.995
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	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.999	0.997
480	0.999	0.997
460	0.997	0.993
440	0.996	0.992
420	0.994	0.987
400	0.990	0.980
390	0.985	0.971
380	0.978	0.956
370	0.964	0.930
360	0.942	0.887
350	0.898	0.806
340	0.829	0.687
330	0.700	0.490
320	0.464	0.215
310	0.141	0.020
300		
290		
280		

着色度 Coloration Code	
λ80(λ70)/λ5	380/310

着色度(内部透過率) Coloration of Internal Transmittance	
λτ80/λτ5	

備考 Remarks

硝種対照表 Glass Cross Reference Index

	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	TAF4	N-LAF21	S-LAH64		
Code	788-475	788-475	788-474		

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