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

BAFD7　702-412

$n_d = 1.70154$　$\nu_d = 41.15$　$n_F - n_C = 0.017049$
$n_e = 1.70559$　$\nu_e = 40.86$　$n_{F'} - n_{C'} = 0.017270$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.68408
n_s	852.11	1.68809
$n_{A'}$	768.19	1.69098
n_r	706.52	1.69372
n_C	656.27	1.69651
$n_{C'}$	643.85	1.69730
n_{633}	632.80	1.69804
n_D	589.29	1.70139
n_d	587.56	1.70154
n_e	546.07	1.70559
n_F	486.13	1.71356
$n_{F'}$	479.99	1.71457
n_g	435.84	1.72339
n_h	404.66	1.73189
n_i	365.01	1.74719

分散式の定数 Constants of dispersion formula	
A_0	2.8217211
A_1	$-9.7265483 \times 10^{-3}$
A_2	2.4345979×10^{-2}
A_3	7.8406305×10^{-4}
A_4	$-2.2431497 \times 10^{-5}$
A_5	4.6726029×10^{-6}

部分分散 Partial dispersions	
$n_C - n_t$	0.012429
$n_d - n_C$	0.005034
$n_F - n_d$	0.012015
$n_g - n_F$	0.009836
$n_{C'} - n_t$	0.013220
$n_e - n_{C'}$	0.008288
$n_{F'} - n_e$	0.008982
$n_g - n_{F'}$	0.008824

部分分散比 Partial dispersion rates			
P_{C_t}	0.7290	$P'_{C'\_t}$	0.7655
P_{d_C}	0.2953	$P'_{d\_C'}$	0.2457
P_{e_d}	0.2373	P'_{e_d}	0.2342
P_{F_e}	0.4675	$P'_{F'\_e}$	0.5201
P_{g_F}	0.5769	$P'_{g\_F'}$	0.5109
P_{h_g}	0.4983	P'_{h_g}	0.4919
P_{i_h}	0.8975	P'_{i_h}	0.8860

異常分散性 Anomalous dispersions	
ΔP_{C_t}	-0.0092
$\Delta P_{C\_A'}$	-0.0026
ΔP_{g_d}	0.0037
ΔP_{g_F}	0.0028
ΔP_{i_g}	0.0187

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

熱的性質 Thermal Properties	
T_g (℃)	582
T_s (℃)	646
$T_{10^{14.5}}$ (℃)	558
$T_{10^{13}}$ (℃)	575
$T_{10^{7.6}}$ (℃)	707
$\alpha_{-30/+70℃}$ (10^{-7}/K)	68
$\alpha_{100/300℃}$ (10^{-7}/K)	84
λ [W/(m·K)]	0.902
C_P [kJ/(kg·K)]	0.556

機械的性質 Mechanical Properties	
H_K	595(6)
F_A	140
E (GPa)	97
G (GPa)	38.0
μ	0.276
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	4.6	2.3
-20/ 0	4.7	2.7
0/+20	4.8	3.1
+20/+40	5.0	3.4
+40/+60	5.0	3.7
+60/+80	5.1	4.0

光弾性定数 Photoelastic Constant	
B (10^{-12}/Pa)	2.25

比重 Specific Gravity	
d	3.65

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.999	0.997
1500	0.998	0.996
1400	0.999	0.998
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	0.997	0.995
650	0.999	0.998
600	0.999	0.998
550	0.999	0.999
500	0.997	0.993
480	0.995	0.990
460	0.991	0.982
440	0.988	0.975
420	0.981	0.962
400	0.961	0.924
390	0.939	0.882
380	0.894	0.799
370	0.797	0.636
360	0.593	0.351
350	0.253	0.064
340		
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
λ80(λ70)/λ5	400/350

着色度(内部透過率) Coloration of Internal Transmittance	
λτ80/λτ5	380/349

備考 Remarks

硝種対照表 Glass Cross Reference Index

	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	BAFD7	N-BASF52	S-BAH27	E-BASF7	H-ZBAF20
Code	702-412	702-410	702-412	702-412	702-412

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