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

BAC4

569-560

$n_d = 1.56883$　$\nu_d = 56.04$　$n_F - n_C = 0.010150$
$n_e = 1.57125$　$\nu_e = 55.77$　$n_{F'} - n_{C'} = 0.010242$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.55755
n_s	852.11	1.56033
$n_{A'}$	768.19	1.56225
n_r	706.52	1.56400
n_C	656.27	1.56575
$n_{C'}$	643.85	1.56624
n_{633}	632.80	1.56670
n_D	589.29	1.56874
n_d	587.56	1.56883
n_e	546.07	1.57125
n_F	486.13	1.57590
$n_{F'}$	479.99	1.57648
n_g	435.84	1.58147
n_h	404.66	1.58611
n_i	365.01	1.59402

分散式の定数 Constants of dispersion formula	
A_0	2.4196645
A_1	$-8.3329314 \times 10^{-3}$
A_2	1.5397390×10^{-2}
A_3	$-1.7391654 \times 10^{-4}$
A_4	6.2183220×10^{-5}
A_5	$-3.0621310 \times 10^{-6}$

部分分散 Partial dispersions	
$n_C - n_t$	0.008201
$n_d - n_C$	0.003078
$n_F - n_d$	0.007072
$n_g - n_F$	0.005566
$n_{C'} - n_t$	0.008690
$n_e - n_{C'}$	0.005007
$n_{F'} - n_e$	0.005235
$n_g - n_{F'}$	0.004985

部分分散比 Partial dispersion rates			
P_{C_t}	0.8080	$P'_{C'\_t}$	0.8485
P_{d_C}	0.3033	$P'_{d\_C'}$	0.2528
P_{e_d}	0.2382	P'_{e_d}	0.2361
P_{F_e}	0.4585	$P'_{F'\_e}$	0.5111
P_{g_F}	0.5484	$P'_{g\_F'}$	0.4867
P_{h_g}	0.4574	P'_{h_g}	0.4533
P_{i_h}	0.7792	P'_{i_h}	0.7722

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0002
$\Delta P_{C\_A'}$	0.0003
ΔP_{g_d}	0.0011
ΔP_{g_F}	0.0010
ΔP_{i_g}	-0.0086

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

熱的性質 Thermal Properties	
T_g (℃)	590
T_s (℃)	664
$T_{10^{14.5}}$ (℃)	565
$T_{10^{13}}$ (℃)	583
$T_{10^{7.6}}$ (℃)	748
$\alpha_{-30/+70℃}$ (10^{-7}/K)	54
$\alpha_{100/300℃}$ (10^{-7}/K)	69
λ [W/(m·K)]	1.190
C_P [kJ/(kg·K)]	0.703

機械的性質 Mechanical Properties	
H_K	615(6)
F_A	90
E (GPa)	81
G (GPa)	32.2
μ	0.253
σ_b (MPa)	122

屈折率の温度係数 ($\times 10^{-6}$/K) Thermal coefficient of refractive indices		
(℃)	dn/dT (rel.)	dn/dT (abs.)
-40/-20	6.6	4.5
-20/ 0	6.7	4.9
0/+20	6.8	5.3
+20/+40	7.0	5.7
+40/+60	7.3	6.1
+60/+80	7.5	6.5

光弾性定数 Photoelastic Constant	
B (10^{-12}/Pa)	3.22

比重 Specific Gravity	
d	2.85

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.995
1500	0.997	0.995
1400	0.994	0.987
1300	0.999	0.998
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
830	0.999	0.998
800	0.999	0.998
780	0.999	0.998
750	0.999	0.997
700	0.998	0.996
650	0.998	0.995
600	0.998	0.997
550	0.999	0.997
500	0.998	0.995
480	0.997	0.994
460	0.996	0.992
440	0.995	0.991
420	0.995	0.990
400	0.994	0.988
390	0.993	0.985
380	0.988	0.976
370	0.982	0.964
360	0.969	0.938
350	0.945	0.892
340	0.901	0.812
330	0.827	0.684
320	0.707	0.500
310	0.530	0.281
300	0.311	0.097
290	0.122	0.015
280		

着色度 Coloration Code	
λ80(λ70)/λ5	350/295

着色度(内部透過率) Coloration of Internal Transmittance	
λτ80/λτ5	339/296

備考 Remarks

硝種対照表 Glass Cross Reference Index

	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	BAC4	N-BAK4	S-BAL14	E-BAK4	H-BAK7
Code	569-560	569-560	569-563	569-563	569-560

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