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

LAC8

713-539

$n_d = 1.71300$　$\nu_d = 53.94$　$n_F - n_C = 0.013219$
$n_e = 1.71615$　$\nu_e = 53.72$　$n_{F'} - n_{C'} = 0.013332$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.69813
n_s	852.11	1.70186
$n_{A'}$	768.19	1.70438
n_r	706.52	1.70669
n_C	656.27	1.70898
$n_{C'}$	643.85	1.70962
n_{633}	632.80	1.71022
n_D	589.29	1.71288
n_d	587.56	1.71300
n_e	546.07	1.71615
n_F	486.13	1.72220
$n_{F'}$	479.99	1.72295
n_g	435.84	1.72939
n_h	404.66	1.73537
n_i	365.01	1.74559

分散式の定数 Constants of dispersion formula	
A_0	2.8778537
A_1	$-1.3832906 \times 10^{-2}$
A_2	2.0301185×10^{-2}
A_3	2.7759871×10^{-4}
A_4	5.9059830×10^{-6}
A_5	1.7747647×10^{-7}

部分分散 Partial dispersions	
$n_C - n_t$	0.010849
$n_d - n_C$	0.004021
$n_F - n_d$	0.009198
$n_g - n_F$	0.007193
$n_{C'} - n_t$	0.011489
$n_e - n_{C'}$	0.006533
$n_{F'} - n_e$	0.006799
$n_g - n_{F'}$	0.006440

部分分散比 Partial dispersion rates			
P_{C_t}	0.8207	$P'_{C'\_t}$	0.8618
P_{d_C}	0.3042	$P'_{d\_C'}$	0.2536
P_{e_d}	0.2384	P'_{e_d}	0.2364
P_{F_e}	0.4574	$P'_{F'\_e}$	0.5100
P_{g_F}	0.5441	$P'_{g\_F'}$	0.4830
P_{h_g}	0.4524	P'_{h_g}	0.4485
P_{i_h}	0.7731	P'_{i_h}	0.7665

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0228
$\Delta P_{C\_A'}$	0.0054
ΔP_{g_d}	-0.0089
ΔP_{g_F}	-0.0070
ΔP_{i_g}	-0.0385

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	3
D_{NaOH}	1
D_{STPP}	2
D_0	2
D_H	

熱的性質 Thermal Properties	
T_g (℃)	636
T_s (℃)	671
$T_{10^{14.5}}$ (℃)	612
$T_{10^{13}}$ (℃)	628
$T_{10^{7.6}}$ (℃)	704
$\alpha_{-30/+70℃}$ (10^{-7}/K)	59
$\alpha_{100/300℃}$ (10^{-7}/K)	72
λ [W/(m·K)]	0.932
C_P [kJ/(kg·K)]	0.597

機械的性質 Mechanical Properties	
H_K	750(7)
F_A	70
E (GPa)	112
G (GPa)	43.2
μ	0.296
σ_b (MPa)	111

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	3.8	1.5
-20/ 0	3.8	1.9
0/+20	3.9	2.2
+20/+40	4.0	2.6
+40/+60	4.2	2.9
+60/+80	4.3	3.2

光弾性定数 Photoelastic Constant	
B (10^{-12}/Pa)	1.84

比重 Specific Gravity	
d	3.81

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.995	0.991
1500	0.995	0.990
1400	0.995	0.990
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	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
830	0.999	0.999
800	0.999	0.999
780	0.999	0.998
750	0.999	0.998
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.999	0.999
480	0.999	0.999
460	0.999	0.998
440	0.999	0.998
420	0.996	0.993
400	0.995	0.990
390	0.992	0.983
380	0.987	0.974
370	0.977	0.954
360	0.960	0.922
350	0.936	0.877
340	0.896	0.803
330	0.842	0.709
320	0.768	0.590
310	0.674	0.454
300	0.545	0.297
290	0.385	0.148
280	0.206	0.042

着色度 Coloration Code	
λ80(λ70)/λ5	360/280

着色度(内部透過率) Coloration of Internal Transmittance	
λτ80/λτ5	340/281

備考 Remarks

硝種対照表 Glass Cross Reference Index

	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	LAC8	M-LAK8	S-LAL8	E-LAK8	H-LAK7
Code	713-539	713-538	713-539	713-539	713-538

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