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

LAC9

691-547

$n_d = 1.69100$　$\nu_d = 54.69$　$n_F - n_C = 0.012634$
$n_e = 1.69401$　$\nu_e = 54.48$　$n_{F'} - n_{C'} = 0.012738$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.67674
n_s	852.11	1.68033
$n_{A'}$	768.19	1.68275
n_r	706.52	1.68496
n_C	656.27	1.68715
$n_{C'}$	643.85	1.68776
n_{633}	632.80	1.68833
n_D	589.29	1.69088
n_d	587.56	1.69100
n_e	546.07	1.69401
n_F	486.13	1.69978
$n_{F'}$	479.99	1.70050
n_g	435.84	1.70663
n_h	404.66	1.71231
n_i	365.01	1.72209

分散式の定数 Constants of dispersion formula	
A_0	2.8081523
A_1	$-1.4167885 \times 10^{-2}$
A_2	1.7693707×10^{-2}
A_3	7.6788759×10^{-4}
A_4	$-7.4886174 \times 10^{-5}$
A_5	4.7044756×10^{-6}

部分分散 Partial dispersions	
$n_C - n_t$	0.010409
$n_d - n_C$	0.003848
$n_F - n_d$	0.008786
$n_g - n_F$	0.006845
$n_{C'} - n_t$	0.011022
$n_e - n_{C'}$	0.006249
$n_{F'} - n_e$	0.006489
$n_g - n_{F'}$	0.006128

部分分散比 Partial dispersion rates			
P_{C_t}	0.8239	$P'_{C'\_t}$	0.8653
P_{d_C}	0.3046	$P'_{d\_C'}$	0.2540
P_{e_d}	0.2386	P'_{e_d}	0.2366
P_{F_e}	0.4569	$P'_{F'\_e}$	0.5094
P_{g_F}	0.5418	$P'_{g\_F'}$	0.4811
P_{h_g}	0.4499	P'_{h_g}	0.4462
P_{i_h}	0.7739	P'_{i_h}	0.7676

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0224
$\Delta P_{C\_A'}$	0.0047
ΔP_{g_d}	-0.0099
ΔP_{g_F}	-0.0080
ΔP_{i_g}	-0.0334

化学的性質 Chemical Properties	
D_W	1
D_A	5
T_{Blue}	†
D_{NaOH}	2
D_{STPP}	5
D_0	4
D_H	

熱的性質 Thermal Properties	
T_g (℃)	611
T_s (℃)	649
$T_{10^{14.5}}$ (℃)	586
$T_{10^{13}}$ (℃)	606
$T_{10^{7.6}}$ (℃)	682
$\alpha_{-30/+70℃}$ (10^{-7}/K)	58
$\alpha_{100/300℃}$ (10^{-7}/K)	73
λ [W/(m·K)]	0.857
C_P [kJ/(kg·K)]	0.585

機械的性質 Mechanical Properties	
H_K	695(7)
F_A	70
E (GPa)	103
G (GPa)	40.3
μ	0.277
σ_b (MPa)	

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	5.0	2.7
-20/ 0	5.1	3.1
0/+20	5.2	3.5
+20/+40	5.3	3.8
+40/+60	5.4	4.2
+60/+80	5.6	4.4

光弾性定数 Photoelastic Constant	
B (10^{-12}/Pa)	2.02

比重 Specific Gravity	
d	3.65

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.995
1500	0.997	0.993
1400	0.996	0.992
1300	0.999	0.998
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	0.999
480	0.999	0.999
460	0.998	0.997
440	0.997	0.995
420	0.995	0.990
400	0.992	0.985
390	0.989	0.979
380	0.985	0.970
370	0.975	0.950
360	0.958	0.917
350	0.926	0.858
340	0.883	0.780
330	0.822	0.675
320	0.743	0.552
310	0.650	0.422
300	0.551	0.303
290	0.449	0.201
280	0.343	0.080

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

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	LAC9	N-LAK9	S-LAL 9		
Code	691-547	691-547	691-548		

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