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.1

BSC7　517-642

$n_d = 1.51680$　$\nu_d = 64.20$　$n_F - n_C = 0.008050$
$n_e = 1.51872$　$\nu_e = 64.00$　$n_{F'} - n_{C'} = 0.008105$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.50733
n_s	852.11	1.50980
$n_{A'}$	768.19	1.51143
n_r	706.52	1.51289
n_C	656.27	1.51432
$n_{C'}$	643.85	1.51472
n_{633}	632.80	1.51509
n_D	589.29	1.51673
n_d	587.56	1.51680
n_e	546.07	1.51872
n_F	486.13	1.52237
$n_{F'}$	479.99	1.52282
n_g	435.84	1.52667
n_h	404.66	1.53022
n_i	365.01	1.53622

分散式の定数 Constants of dispersion formula	
A_0	2.2702566
A_1	$-9.1988101 \times 10^{-3}$
A_2	1.1609706×10^{-2}
A_3	$-7.6123911 \times 10^{-5}$
A_4	2.8558727×10^{-5}
A_5	$-1.2566486 \times 10^{-6}$

部分分散 Partial dispersions	
$n_C - n_t$	0.006989
$n_d - n_C$	0.002480
$n_F - n_d$	0.005570
$n_g - n_F$	0.004301
$n_{C'} - n_t$	0.007387
$n_e - n_{C'}$	0.004003
$n_{F'} - n_e$	0.004102
$n_g - n_{F'}$	0.003848

部分分散比 Partial dispersion rates			
P_{C_t}	0.8682	$P'_{C'\_t}$	0.9114
P_{d_C}	0.3081	$P'_{d\_C'}$	0.2569
P_{e_d}	0.2386	P'_{e_d}	0.2370
P_{F_e}	0.4533	$P'_{F'\_e}$	0.5061
P_{g_F}	0.5343	$P'_{g\_F'}$	0.4748
P_{h_g}	0.4407	P'_{h_g}	0.4378
P_{i_h}	0.7456	P'_{i_h}	0.7405

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0224
$\Delta P_{C\_A'}$	0.0043
ΔP_{g_d}	0.0008
ΔP_{g_F}	0.0016
ΔP_{i_g}	0.0132

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

熱的性質 Thermal Properties	
T_g (℃)	556
T_s (℃)	621
$T_{10^{14.5}}$ (℃)	529
$T_{10^{13}}$ (℃)	550
$T_{10^{7.6}}$ (℃)	711
$\alpha_{-30/+70℃}$ (10^{-7}/K)	76
$\alpha_{100/300℃}$ (10^{-7}/K)	93
λ [W/(m·K)]	1.210
C_P [kJ/(kg·K)]	0.749

機械的性質 Mechanical Properties	
H_K	595(6)
F_A	100
E (GPa)	79
G (GPa)	32.7
μ	0.214
σ_b (MPa)	106

屈折率の温度係数 (×10^{-6}/K) Thermal coefficient of refractive indices		
(℃)	dn/dT (rel.)	dn/dT (abs.)
-40/-20	2.4	0.4
-20/ 0	2.5	0.8
0/+20	2.6	1.1
+20/+40	2.7	1.4
+40/+60	2.8	1.6
+60/+80	2.8	1.8

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β C	
β d	
β F	
β g	

光弾性定数 Photoelastic Constant	
B (10^{-12}/Pa)	2.82

その他の性質 Other Property	
比重 d	2.52

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.994	0.989
1500	0.996	0.993
1400	0.987	0.974
1300	0.997	0.994
1200	0.998	0.995
1100	0.998	0.995
1060	0.998	0.996
1050	0.998	0.996
1000	0.999	0.997
950	0.999	0.997
900	0.999	0.998
850	0.999	0.998
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	0.998
600	0.999	0.999
550	0.999	0.999
500	0.999	0.998
480	0.999	0.998
460	0.999	0.998
440	0.998	0.997
420	0.999	0.998
400	0.999	0.998
390	0.998	0.997
380	0.997	0.993
370	0.997	0.993
360	0.994	0.988
350	0.989	0.977
340	0.977	0.954
330	0.952	0.907
320	0.900	0.810
310	0.800	0.630
300	0.610	0.380
290	0.360	0.130
280	0.140	0.020

着色度 Coloring	
λ80(λ70)/λ5	33/29
λ τ0.8	

色度(D_{65}) Chromaticity coordinates	
x	
y	

備考 Remarks
作成　201004

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