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

E-FEL2

541-472

$n_d = 1.54072$　$\nu_d = 47.20$　$n_F - n_C = 0.011456$
$n_e = 1.54344$　$\nu_e = 46.90$　$n_{F'} - n_{C'} = 0.011587$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.52841
n_s	852.11	1.53141
$n_{A'}$	768.19	1.53348
n_r	706.52	1.53538
n_C	656.27	1.53730
$n_{C'}$	643.85	1.53784
n_{633}	632.80	1.53835
n_D	589.29	1.54062
n_d	587.56	1.54072
n_e	546.07	1.54344
n_F	486.13	1.54876
$n_{F'}$	479.99	1.54943
n_g	435.84	1.55526
n_h	404.66	1.56084
n_i	365.01	1.57082

分散式の定数 Constants of dispersion formula	
A_0	2.3317983
A_1	$-9.7042192 \times 10^{-3}$
A_2	1.4032761×10^{-2}
A_3	6.4822896×10^{-4}
A_4	$-4.0813761 \times 10^{-5}$
A_5	3.9064873×10^{-6}

部分分散 Partial dispersions	
$n_C - n_t$	0.008889
$n_d - n_C$	0.003418
$n_F - n_d$	0.008038
$n_g - n_F$	0.006503
$n_{C'} - n_t$	0.009429
$n_e - n_{C'}$	0.005598
$n_{F'} - n_e$	0.005989
$n_g - n_{F'}$	0.005832

部分分散比 Partial dispersion rates			
P_{C_t}	0.7759	$P'_{C'\_t}$	0.8138
P_{d_C}	0.2984	$P'_{d\_C'}$	0.2484
P_{e_d}	0.2374	P'_{e_d}	0.2347
P_{F_e}	0.4642	$P'_{F'\_e}$	0.5169
P_{g_F}	0.5677	$P'_{g\_F'}$	0.5033
P_{h_g}	0.4869	P'_{h_g}	0.4814
P_{i_h}	0.8716	P'_{i_h}	0.8617

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0095
$\Delta P_{C\_A'}$	-0.0001
ΔP_{g_d}	0.0051
ΔP_{g_F}	0.0044
ΔP_{i_g}	0.0350

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 (℃)	497
T_s (℃)	571
$T_{10^{14.5}}$ (℃)	476
$T_{10^{13}}$ (℃)	491
$T_{10^{7.6}}$ (℃)	656
$\alpha_{-30/+70℃}$ (10^{-7}/K)	82
$\alpha_{100/300℃}$ (10^{-7}/K)	100
λ [W/(m·K)]	1.130
C_P [kJ/(kg·K)]	0.772

機械的性質 Mechanical Properties	
H_K	550(6)
F_A	130
E (GPa)	
G (GPa)	
μ	
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	1.1	-0.9
-20/ 0	1.2	-0.6
0/+20	1.3	-0.2
+20/+40	1.4	0.0
+40/+60	1.4	0.2
+60/+80	1.4	0.4

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

比重 Specific Gravity	
d	2.53

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.996	0.993
1500	0.998	0.996
1400	0.997	0.995
1300	0.999	0.998
1200	0.999	0.998
1100	0.999	0.998
1060	0.999	0.997
1050	0.999	0.997
1000	0.999	0.997
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
830	0.999	0.998
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	0.998
550	0.999	0.999
500	0.998	0.996
480	0.997	0.995
460	0.996	0.992
440	0.996	0.991
420	0.996	0.992
400	0.995	0.989
390	0.990	0.979
380	0.980	0.960
370	0.953	0.908
360	0.853	0.728
350	0.558	0.312
340	0.163	0.027
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
λ80(λ70)/λ5	370/340

着色度(内部透過率) Coloration of Internal Transmittance	
λτ80/λτ5	363/342

備考 Remarks

硝種対照表 Glass Cross Reference Index

	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-FEL2		S-TIL2	E-LLF2	H-QF8
Code	541-472		541-472	541-472	541-472

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