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

FF5

593-354

$n_d = 1.59270$　$\nu_d = 35.44$　$n_F - n_C = 0.016722$
$n_e = 1.59666$　$\nu_e = 35.17$　$n_{F'} - n_{C'} = 0.016967$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.57579
n_s	852.11	1.57970
$n_{A'}$	768.19	1.58249
n_r	706.52	1.58513
n_C	656.27	1.58782
$n_{C'}$	643.85	1.58858
n_{633}	632.80	1.58930
n_D	589.29	1.59256
n_d	587.56	1.59270
n_e	546.07	1.59666
n_F	486.13	1.60454
$n_{F'}$	479.99	1.60555
n_g	435.84	1.61445
n_h	404.66	1.62320
n_i	365.01	1.63952

分散式の定数 Constants of dispersion formula	
A_0	2.4743324
A_1	$-1.0955338 \times 10^{-2}$
A_2	1.9293801×10^{-2}
A_3	1.4497732×10^{-3}
A_4	$-1.1038744 \times 10^{-4}$
A_5	1.1136008×10^{-5}

部分分散 Partial dispersions	
$n_C - n_t$	0.012029
$n_d - n_C$	0.004885
$n_F - n_d$	0.011837
$n_g - n_F$	0.009909
$n_{C'} - n_t$	0.012794
$n_e - n_{C'}$	0.008075
$n_{F'} - n_e$	0.008892
$n_g - n_{F'}$	0.008899

部分分散比 Partial dispersion rates			
P_{C_t}	0.7194	$P'_{C'\_t}$	0.7541
P_{d_C}	0.2921	$P'_{d\_C'}$	0.2428
P_{e_d}	0.2365	P'_{e_d}	0.2331
P_{F_e}	0.4714	$P'_{F'\_e}$	0.5241
P_{g_F}	0.5926	$P'_{g\_F'}$	0.5245
P_{h_g}	0.5233	P'_{h_g}	0.5158
P_{i_h}	0.9759	P'_{i_h}	0.9618

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0078
$\Delta P_{C\_A'}$	-0.0013
ΔP_{g_d}	0.0095
ΔP_{g_F}	0.0081
ΔP_{i_g}	0.0717

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 (℃)	515
T_s (℃)	563
$T_{10^{14.5}}$ (℃)	491
$T_{10^{13}}$ (℃)	507
$T_{10^{7.6}}$ (℃)	641
$\alpha_{-30/+70℃}$ (10^{-7}/K)	86
$\alpha_{100/300℃}$ (10^{-7}/K)	102
λ [W/(m·K)]	0.956
C_P [kJ/(kg·K)]	0.730

機械的性質 Mechanical Properties	
H_K	500(5)
F_A	180
E (GPa)	
G (GPa)	
μ	
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	0.4	-1.8
-20/ 0	0.5	-1.3
0/+20	0.7	-0.9
+20/+40	0.8	-0.6
+40/+60	1.0	-0.3
+60/+80	1.1	0.0

光弾性定数 Photoelastic Constant	
B (10^{-12}/Pa)	3.31

比重 Specific Gravity	
d	2.64

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550		
1500		
1400		
1300		
1200		
1100		
1060		
1050		
1000		
950		
900		
850		
830		
800		
780		
750		
700	0.999	0.999
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.997	0.995
480	0.996	0.992
460	0.995	0.991
440	0.994	0.988
420	0.991	0.982
400	0.982	0.964
390	0.969	0.939
380	0.937	0.878
370	0.849	0.721
360	0.610	0.372
350	0.206	0.042
340		
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
λ80(λ70)/λ5	380/350

着色度(内部透過率) Coloration of Internal Transmittance	
λτ80/λτ5	374/350

備考 Remarks

硝種対照表 Glass Cross Reference Index

	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	FF5		S-FTM16	E-F16	
Code	593-354		593-353	593-353	

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