ガラスモールドレンズ用プリフォーム硝種（熱間ＰＦ） Preform for precision molding (Precision gob)

MP-TAFD51-50

821-427

$n_d = 1.82130$　$\nu_d = 42.72$　$n_F - n_C = 0.019223$
$n_e = 1.82587$　$\nu_e = 42.47$　$n_{F'} - n_{C'} = 0.019444$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.80105
n_s	852.11	1.80582
$n_{A'}$	768.19	1.80920
n_r	706.52	1.81237
n_C	656.27	1.81557
$n_{C'}$	643.85	1.81647
n_{633}	632.80	1.81732
n_D	589.29	1.82113
n_d	587.56	1.82130
n_e	546.07	1.82587
n_F	486.13	1.83479
$n_{F'}$	479.99	1.83592
n_g	435.84	1.84565
n_h	404.66	1.85487
n_i	365.01	1.87105

分散式の定数 Constants of dispersion formula	
A_0	3.2288052
A_1	$-1.4433046 \times 10^{-2}$
A_2	2.9863488×10^{-2}
A_3	8.2119282×10^{-4}
A_4	$-1.0943492 \times 10^{-5}$
A_5	2.5804939×10^{-6}

部分分散 Partial dispersions	
$n_C - n_t$	0.014520
$n_d - n_C$	0.005730
$n_F - n_d$	0.013493
$n_g - n_F$	0.010858
$n_{C'} - n_t$	0.015424
$n_e - n_{C'}$	0.010299
$n_{F'} - n_e$	0.010049
$n_g - n_{F'}$	0.009733

部分分散比 Partial dispersion rates			
P_{C_t}	0.7553	$P'_{C'\_t}$	0.7933
P_{d_C}	0.2981	$P'_{d\_C'}$	0.2482
P_{e_d}	0.2377	P'_{e_d}	0.2350
P_{F_e}	0.4642	$P'_{F'\_e}$	0.5168
P_{g_F}	0.5648	$P'_{g\_F'}$	0.5006
P_{h_g}	0.4796	P'_{h_g}	0.4741
P_{i_h}	0.8420	P'_{i_h}	0.8324

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0098
$\Delta P_{C\_A'}$	0.0024
ΔP_{g_d}	-0.0076
ΔP_{g_F}	-0.0065
ΔP_{i_g}	-0.0416

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

熱的性質 Thermal Properties	
T_g (℃)	600
T_s (℃)	643
$T_{10^{14.5}}$ (℃)	580
$T_{10^{13}}$ (℃)	594
$T_{10^{7.6}}$ (℃)	681
$\alpha_{-30/+70℃}$ (10^{-7}/K)	64
$\alpha_{100/300℃}$ (10^{-7}/K)	77
λ [W/(m·K)]	0.840
C_P [kJ/(kg·K)]	0.462

機械的性質 Mechanical Properties	
H_K	670(7)
F_A	70
E (GPa)	121
G (GPa)	46.4
μ	0.300
σ_b (MPa)	117

屈折率の温度係数 (×10^{-6}/K) Thermal coefficient of refractive indices		
(℃)	dn/dT (rel.)	dn/dT (abs.)
-40/-20	5.9	3.4
-20/ 0	5.9	3.8
0/+20	6.0	4.2
+20/+40	6.1	4.5
+40/+60	6.2	4.8
+60/+80	6.4	5.1

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β C	157
β d	156
β F	158
β g	159

光弾性定数 Photoelastic Constant	
B (10^{-12}/Pa)	1.74

比重 Specific Gravity	
d	5.01

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.996
1500	0.998	0.996
1400	0.999	0.997
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.998
1060	0.999	0.997
1050	0.999	0.999
1000	0.999	0.999
950	0.999	0.999
900	0.999	0.998
850	0.999	0.999
830	0.999	0.998
800	0.999	0.999
780	0.998	0.997
750	0.998	0.996
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.996	0.992
480	0.993	0.987
460	0.990	0.979
440	0.985	0.970
420	0.977	0.954
400	0.957	0.916
390	0.936	0.875
380	0.898	0.806
370	0.830	0.689
360	0.703	0.494
350	0.495	0.245
340	0.252	0.063
330		
320		
310		
300		
290		
280		

着色度 Coloration Code	
λ80(λ70)/λ5	420/340

着色度（内部透過率） Coloration of Internal Transmittance	
λτ80/λτ5	379/339

備考 Remarks
作成　201104

HOYA CORPORATION OPTICAL GLASS CATALOGUE

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