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-TAF401

774-472

$n_d = 1.77377$　$\nu_d = 47.17$　$n_F - n_C = 0.016405$
$n_e = 1.77767$　$\nu_e = 46.92$　$n_{F'} - n_{C'} = 0.016575$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.75610
n_s	852.11	1.76034
$n_{A'}$	768.19	1.76331
n_r	706.52	1.76607
n_C	656.27	1.76884
$n_{C'}$	643.85	1.76962
n_{633}	632.80	1.77035
n_D	589.29	1.77362
n_d	587.56	1.77377
n_e	546.07	1.77767
n_F	486.13	1.78524
$n_{F'}$	479.99	1.78619
n_g	435.84	1.79436
n_h	404.66	1.80202
n_i	365.01	1.81527

分散式の定数 Constants of dispersion formula	
A_0	3.0727900
A_1	$-1.3663850 \times 10^{-2}$
A_2	2.5273460×10^{-2}
A_3	6.1218200×10^{-4}
A_4	$-1.1470450 \times 10^{-5}$
A_5	1.5430000×10^{-6}

部分分散 Partial dispersions	
$n_C - n_t$	0.012737
$n_d - n_C$	0.004928
$n_F - n_d$	0.011477
$n_g - n_F$	0.009114
$n_{C'} - n_t$	0.013516
$n_e - n_{C'}$	0.008055
$n_{F'} - n_e$	0.008520
$n_g - n_{F'}$	0.008165

部分分散比 Partial dispersion rates			
P_{C_t}	0.7764	$P'_{C'\_t}$	0.8154
P_{d_C}	0.3004	$P'_{d\_C'}$	0.2503
P_{e_d}	0.2381	P'_{e_d}	0.2357
P_{F_e}	0.4615	$P'_{F'\_e}$	0.5140
P_{g_F}	0.5556	$P'_{g\_F'}$	0.4926
P_{h_g}	0.4668	P'_{h_g}	0.4620
P_{i_h}	0.8079	P'_{i_h}	0.7996

異常分散性 Anomalous dispersions	
ΔP_{C_t}	0.0101
$\Delta P_{C\_A'}$	0.0027
ΔP_{g_d}	-0.0091
ΔP_{g_F}	-0.0078
ΔP_{i_g}	-0.0492

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

熱的性質 Thermal Properties	
T_g (℃)	569
T_s (℃)	614
$T_{10^{14.5}}$ (℃)	548
$T_{10^{13}}$ (℃)	565
$T_{10^{7.6}}$ (℃)	653
$\alpha_{-30/+70℃}$ (10^{-7}/K)	61
$\alpha_{100/300℃}$ (10^{-7}/K)	77
λ [W/(m·K)]	0.752
C_P [kJ/(kg·K)]	0.444

機械的性質 Mechanical Properties	
H_K	793(7)
F_A	60
E (GPa)	118
G (GPa)	45.5
μ	0.299
σ_b (MPa)	110

屈折率の温度係数 (×10^{-6}/K) Thermal coefficient of refractive indices		
(℃)	dn/dT (rel.)	dn/dT (abs.)
-40/-20	6.4	4.0
-20/ 0	6.4	4.4
0/+20	6.5	4.8
+20/+40	6.6	5.1
+40/+60	6.8	5.4
+60/+80	6.9	5.7

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
β C	132
β d	133
β F	133
β g	133

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

比重 Specific Gravity	
d	4.62

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.994
1500	0.997	0.995
1400	0.998	0.995
1300	0.998	0.996
1200	0.998	0.996
1100	0.998	0.995
1060	0.998	0.995
1050	0.997	0.995
1000	0.997	0.994
950	0.997	0.995
900	0.997	0.994
850	0.996	0.993
830	0.996	0.992
800	0.996	0.992
780	0.997	0.993
750	0.996	0.993
700	0.998	0.997
650	0.999	0.998
600	0.999	0.999
550	0.999	0.999
500	0.998	0.997
480	0.997	0.995
460	0.996	0.992
440	0.993	0.987
420	0.990	0.981
400	0.982	0.965
390	0.974	0.948
380	0.958	0.918
370	0.929	0.864
360	0.877	0.770
350	0.791	0.626
340	0.665	0.443
330	0.490	0.240
320	0.284	0.081
310	0.110	0.012
300		
290		
280		

着色度 Coloration Code	
λ80(λ70)/λ5	390/320

着色度（内部透過率） Coloration of Internal Transmittance	
λτ80/λτ5	363/317

備考 Remarks
作成　201104

HOYA CORPORATION OPTICAL GLASS CATALOGUE