

M-PCD4

619-639

$n_d = 1.61881$ $\nu_d = 63.85$ $n_F - n_C = 0.009691$
 $n_e = 1.62112$ $\nu_e = 63.55$ $n_{F'} - n_{C'} = 0.009774$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.60793
n_s	852.11	1.61065
$n_{A'}$	768.19	1.61250
n_r	706.52	1.61418
n_c	656.27	1.61586
$n_{c'}$	643.85	1.61633
n_{633}	632.80	1.61677
n_D	589.29	1.61872
n_d	587.56	1.61881
n_e	546.07	1.62112
n_F	486.13	1.62555
$n_{F'}$	479.99	1.62610
n_g	435.84	1.63080
n_h	404.66	1.63514
n_i	365.01	1.64251

化学的性質 Chemical Properties	
D_W	1
D_A	4
T_{Blue}	+
D_{NaOH}	2
D_{STPP}	2
D_0	2
D_H	1

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.999	0.997
1500	0.998	0.997
1400	0.999	0.998
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.998	0.997
850	0.998	0.996
830	0.998	0.997
800	0.998	0.996
780	0.998	0.995
750	0.998	0.996
700	0.998	0.996
650	0.999	0.997
600	0.999	0.998
550	0.999	0.999
500	0.999	0.998
480	0.998	0.996
460	0.997	0.994
440	0.996	0.991
420	0.994	0.988
400	0.989	0.977
390	0.980	0.960
380	0.961	0.924
370	0.924	0.854
360	0.850	0.723
350	0.722	0.521
340	0.548	0.300
330	0.353	0.125
320	0.185	0.034
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	2.5823350
A_1	$-9.9520390 \times 10^{-3}$
A_2	1.3291840×10^{-2}
A_3	4.5506210×10^{-4}
A_4	$-3.3271320 \times 10^{-5}$
A_5	1.7301720×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	508
T_s (°C)	555
$T_{10^{14.5}}$ (°C)	486
$T_{10^{13}}$ (°C)	499
$T_{10^{7.6}}$ (°C)	588
$\alpha_{-30/+70}$ ($10^{-7}/K$)	106
$\alpha_{100/300}$ ($10^{-7}/K$)	130
λ [W/(m·K)]	0.757
C_p [kJ/(kg·K)]	0.616

部分分散 Partial dispersions	
$n_c - n_t$	0.007931
$n_d - n_c$	0.002947
$n_F - n_d$	0.006744
$n_g - n_F$	0.005249
$n_{c'} - n_t$	0.008399
$n_e - n_{c'}$	0.004792
$n_{F'} - n_e$	0.004982
$n_g - n_{F'}$	0.004698

機械的性質 Mechanical Properties	
H_K	390 (4)
F_A	300
E (GPa)	86
G (GPa)	33.4
μ	0.282
σ_b (MPa)	55

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8184	$P'_{c,t}$	0.8593
$P_{d,c}$	0.3041	$P'_{d,c}$	0.2536
$P_{e,d}$	0.2387	$P'_{e,d}$	0.2366
$P_{F,e}$	0.4572	$P'_{F,e}$	0.5097
$P_{g,F}$	0.5416	$P'_{g,F}$	0.4807
$P_{h,g}$	0.4478	$P'_{h,g}$	0.4440
$P_{i,h}$	0.7604	$P'_{i,h}$	0.7539

屈折率の温度係数 Thermal coefficient of refractive indices ($\times 10^{-6}/K$)		
(°C)	dn/dT (rel.)	dn/dT (abs.)
-40/-20	-2.8	-4.9
-20/ 0	-2.9	-4.7
0/+20	-2.9	-4.5
+20/+40	-3.0	-4.4
+40/+60	-3.0	-4.2
+60/+80	-3.0	-4.1

光弾性定数 Photoelastic Constant	
B ($10^{-12}/Pa$)	1.03

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	-0.0258
$\Delta P_{c,A'}$	-0.0074
$\Delta P_{g,d}$	0.0113
$\Delta P_{g,F}$	0.0084
$\Delta P_{i,g}$	0.0321

比重 Specific Gravity	
d	3.57

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	375/325
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	365/323

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-PCD4			Q-PSKH2S	
Code	619-639			619-637	
作成 201104					