

E-BACED20

649-530

$n_d = 1.64850$ $\nu_d = 53.03$ $n_F - n_C = 0.012229$
 $n_e = 1.65141$ $\nu_e = 52.74$ $n_{F'} - n_{C'} = 0.012351$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.63528
n_s	852.11	1.63846
$n_{A'}$	768.19	1.64069
n_r	706.52	1.64275
n_c	656.27	1.64482
$n_{c'}$	643.85	1.64540
n_{633}	632.80	1.64595
n_D	589.29	1.64839
n_d	587.56	1.64850
n_e	546.07	1.65141
n_F	486.13	1.65705
$n_{F'}$	479.99	1.65775
n_g	435.84	1.66380
n_h	404.66	1.66943
n_i	365.01	1.67910

分散式の定数 Constants of dispersion formula	
A_0	2.6667537
A_1	$-9.7319259 \times 10^{-3}$
A_2	1.7436284×10^{-2}
A_3	4.7558015×10^{-4}
A_4	$-1.7144989 \times 10^{-5}$
A_5	1.1049589×10^{-6}

部分分散 Partial dispersions	
$n_c - n_t$	0.009538
$n_d - n_c$	0.003681
$n_F - n_d$	0.008548
$n_g - n_F$	0.006750
$n_{c'} - n_t$	0.010121
$n_e - n_{c'}$	0.006012
$n_{F'} - n_e$	0.006339
$n_g - n_{F'}$	0.006045

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7799	$P'_{c,t}$	0.8194
$P_{d,c}$	0.3010	$P'_{d,c}$	0.2508
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2359
$P_{F,e}$	0.4607	$P'_{F,e}$	0.5132
$P_{g,F}$	0.5520	$P'_{g,F}$	0.4894
$P_{h,g}$	0.4609	$P'_{h,g}$	0.4563
$P_{i,h}$	0.7905	$P'_{i,h}$	0.7827

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	-0.0137
$\Delta P_{c,A'}$	-0.0033
$\Delta P_{g,d}$	0.0001
$\Delta P_{g,F}$	-0.0008
$\Delta P_{i,g}$	-0.0206

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

熱的性質 Thermal Properties	
T_g (°C)	609
T_s (°C)	675
$T_{10^{14.5}}$ (°C)	585
$T_{10^{13}}$ (°C)	601
$T_{10^{7.6}}$ (°C)	748
$\alpha_{-30/+70}$ ($10^{-7}/K$)	70
$\alpha_{100/300}$ ($10^{-7}/K$)	82
λ [W/(m·K)]	0.806
C_p [kJ/(kg·K)]	0.545

機械的性質 Mechanical Properties	
H_K	580 (6)
F_A	160
E (GPa)	
G (GPa)	
μ	
σ_b (MPa)	

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	3.2	1.0
-20/ 0	3.2	1.3
0/+20	3.2	1.6
+20/+40	3.3	1.9
+40/+60	3.4	2.2
+60/+80	3.5	2.4

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

比重 Specific Gravity	
d	3.68

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.995
1500	0.998	0.995
1400	0.997	0.994
1300	0.999	0.997
1200	0.999	0.997
1100	0.999	0.997
1060	0.999	0.997
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
830	0.999	0.998
800	0.999	0.998
780	0.999	0.998
750	0.999	0.997
700	0.999	0.997
650	0.999	0.997
600	0.999	0.997
550	0.999	0.997
500	0.998	0.996
480	0.998	0.995
460	0.997	0.994
440	0.996	0.992
420	0.995	0.990
400	0.992	0.984
390	0.989	0.978
380	0.983	0.966
370	0.972	0.945
360	0.950	0.903
350	0.910	0.820
340	0.840	0.700
330	0.730	0.530
320	0.570	0.320
310	0.380	0.140
300	0.190	0.040
290	0.070	0.010
280		

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	360/300

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-BACED20		S-BSM71		
Code	649-530		649-530		
作成 201104					