

E-FL5

581-409

$n_d = 1.58144$ $\nu_d = 40.89$ $n_F - n_C = 0.014220$
 $n_e = 1.58481$ $\nu_e = 40.61$ $n_{F'} - n_{C'} = 0.014400$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.56660
n_s	852.11	1.57011
$n_{A'}$	768.19	1.57258
n_r	706.52	1.57489
n_c	656.27	1.57723
$n_{c'}$	643.85	1.57789
n_{633}	632.80	1.57852
n_D	589.29	1.58132
n_d	587.56	1.58144
n_e	546.07	1.58481
n_F	486.13	1.59145
$n_{F'}$	479.99	1.59229
n_g	435.84	1.59965
n_h	404.66	1.60676
n_i	365.01	1.61966

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	

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.997	0.993
1500	0.997	0.994
1400	0.996	0.993
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.999
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	0.998
700	0.999	0.999
650	0.999	0.998
600	0.999	0.999
550	0.999	0.999
500	0.998	0.996
480	0.997	0.994
460	0.996	0.993
440	0.994	0.989
420	0.994	0.987
400	0.984	0.967
390	0.970	0.941
380	0.934	0.873
370	0.832	0.692
360	0.570	0.325
350	0.179	0.032
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	2.4465754
A_1	$-1.0107041 \times 10^{-2}$
A_2	1.7759132×10^{-2}
A_3	8.7970259×10^{-4}
A_4	$-5.7014929 \times 10^{-5}$
A_5	6.0924663×10^{-6}

熱的性質 Thermal Properties	
T_g (°C)	585
T_s (°C)	639
$T_{10^{14.5}}$ (°C)	564
$T_{10^{13}}$ (°C)	575
$T_{10^{7.6}}$ (°C)	710
$\alpha_{-30/+70}$ ($10^{-7}/K$)	79
$\alpha_{100/300}$ ($10^{-7}/K$)	91
λ [W/(m·K)]	1.050
C_p [kJ/(kg·K)]	0.751

部分分散 Partial dispersions	
$n_C - n_t$	0.010631
$n_d - n_C$	0.004208
$n_F - n_d$	0.010012
$n_g - n_F$	0.008200
$n_{c'} - n_t$	0.011293
$n_e - n_{c'}$	0.006918
$n_{F'} - n_e$	0.007482
$n_g - n_{F'}$	0.007358

機械的性質 Mechanical Properties	
H_K	550 (6)
F_A	110
E (GPa)	76
G (GPa)	30.8
μ	0.229
σ_b (MPa)	

部分分散比 Partial dispersion rates			
$P_{C,t}$	0.7476	$P'_{C,t}$	0.7842
$P_{d,C}$	0.2959	$P'_{d,C}$	0.2463
$P_{e,d}$	0.2371	$P'_{e,d}$	0.2342
$P_{F,e}$	0.4669	$P'_{F,e}$	0.5196
$P_{g,F}$	0.5767	$P'_{g,F}$	0.5110
$P_{h,g}$	0.4996	$P'_{h,g}$	0.4934
$P_{i,h}$	0.9076	$P'_{i,h}$	0.8962

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	2.5	0.3
-20/ 0	2.8	0.9
0/+20	2.9	1.4
+20/+40	3.0	1.7
+40/+60	3.1	1.9
+60/+80	3.1	2.0

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

比重 Specific Gravity	
d	2.59

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	380/350
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	375/351

異常分散性 Anomalous dispersions	
$\Delta P_{C,t}$	0.0107
$\Delta P_{C,A'}$	0.0008
$\Delta P_{g,d}$	0.0022
$\Delta P_{g,F}$	0.0020
$\Delta P_{i,g}$	0.0279

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
Glass Type	HOYA	SCHOTT	OHARA	HIKARI	CDGM
	E-FL5	N-LF5	S-TIL25	E-LF5	H-QF50
Code	581-409	581-409	581-407	581-407	581-409

作成 201104