

E-LAF7

750-350

$n_d = 1.74950$ $\nu_d = 35.04$ $n_F - n_C = 0.021390$
 $n_e = 1.75456$ $\nu_e = 34.77$ $n_{F'} - n_{C'} = 0.021700$

屈折率 Refractive Index		
	λ (nm)	
n_t	1013.98	1.72798
n_s	852.11	1.73289
$n_{A'}$	768.19	1.73644
n_r	706.52	1.73980
n_c	656.27	1.74325
$n_{c'}$	643.85	1.74422
n_{633}	632.80	1.74515
n_D	589.29	1.74931
n_d	587.56	1.74950
n_e	546.07	1.75456
n_F	486.13	1.76464
$n_{F'}$	479.99	1.76592
n_g	435.84	1.77727
n_h	404.66	1.78839
n_i	365.01	1.80904

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

内部透過率 Internal Transmittance		
λ (nm)	τ 5mm	τ 10mm
1550	0.998	0.996
1500	0.998	0.996
1400	0.998	0.996
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.999
1060	0.999	0.999
1050	0.999	0.999
1000	0.999	0.999
950	0.999	0.999
900	0.999	0.999
850	0.999	0.999
830	0.999	0.999
800	0.999	0.999
780	0.999	0.999
750	0.999	0.998
700	0.997	0.995
650	0.997	0.994
600	0.997	0.993
550	0.997	0.994
500	0.992	0.984
480	0.991	0.982
460	0.988	0.975
440	0.981	0.962
420	0.967	0.934
400	0.912	0.831
390	0.846	0.715
380	0.716	0.513
370	0.485	0.235
360	0.179	0.032
350		
340		
330		
320		
310		
300		
290		
280		

分散式の定数 Constants of dispersion formula	
A_0	2.9704178
A_1	$-1.3290679 \times 10^{-2}$
A_2	2.8359006×10^{-2}
A_3	1.7661786×10^{-3}
A_4	$-1.2453482 \times 10^{-4}$
A_5	1.3951937×10^{-5}

熱的性質 Thermal Properties	
T_g (°C)	627
T_s (°C)	679
$T_{10^{14.5}}$ (°C)	604
$T_{10^{13}}$ (°C)	619
$T_{10^{7.6}}$ (°C)	725
$\alpha_{-30/+70}$ ($10^{-7}/K$)	68
$\alpha_{100/300}$ ($10^{-7}/K$)	82
λ [W/(m·K)]	0.961
C_p [kJ/(kg·K)]	0.571

部分分散 Partial dispersions	
$n_c - n_t$	0.015270
$n_d - n_c$	0.006253
$n_F - n_d$	0.015137
$n_g - n_F$	0.012631
$n_{c'} - n_t$	0.016248
$n_e - n_{c'}$	0.010338
$n_{F'} - n_e$	0.011362
$n_g - n_{F'}$	0.011343

機械的性質 Mechanical Properties	
H_K	570 (6)
F_A	130
E (GPa)	
G (GPa)	
μ	
σ_b (MPa)	

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.7139	$P'_{c,t}$	0.7488
$P_{d,c}$	0.2923	$P'_{d,c}$	0.2431
$P_{e,d}$	0.2367	$P'_{e,d}$	0.2333
$P_{F,e}$	0.4710	$P'_{F,e}$	0.5236
$P_{g,F}$	0.5905	$P'_{g,F}$	0.5227
$P_{h,g}$	0.5200	$P'_{h,g}$	0.5125
$P_{i,h}$	0.9654	$P'_{i,h}$	0.9516

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	0.8
-20/ 0	3.2	1.2
0/+20	3.3	1.6
+20/+40	3.4	1.9
+40/+60	3.6	2.3
+60/+80	3.8	2.6

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0042
$\Delta P_{c,A'}$	-0.0010
$\Delta P_{g,d}$	0.0063
$\Delta P_{g,F}$	0.0053
$\Delta P_{i,g}$	0.0542

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

比重 Specific Gravity	
d	3.72

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	420/360
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	397/361

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	E-LAF7	N-LAF7	S-LAM7	E-LAF7	H-LAF4
Code	750-350	749-348	750-353	749-353	750-350
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