H-ZK11 639555

nd =1.63854	vd =55.45	nF – nC =0.011516
ne =1.64129	ve =55.18	nF´- nc´ =0.011621

Refractive Indices		
	λ (nm)	
n_r	706.5	1.63308
n_c	656.3	1.63505
$n_{c'}$	643.8	1.63561
n_{He-Ne}	632.8	1.63613
n_D	589.3	1.63844
n_d	587.6	1.63854
n_e	546.1	1.64129
n_F	486.1	1.64657
$n_{F'}$	480.0	1.64723
n_g	435.8	1.65287
n_h	404.7	1.65813
n_i	365.0	1.66715

Constants of Dispersion (Cauchy)	
A_0	2.6365277
A_1	-9.75584641×10^{-3}
A_2	1.71436651×10^{-2}
A_3	2.25924971×10^{-4}
A_4	3.08553421×10^{-6}
A_5	4.58319171×10^{-7}

Relative Partial Dispersions			
$P_{d,c}$	0.303	$P'_{d,c'}$	0.2522
$P_{e,d}$	0.2387	$P'_{e,d}$	0.2367
$P_{g,F}$	0.5469	$P'_{g,F'}$	0.4854

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0013
$\triangle P_{g,F}$	-0.0046

NHG	HOYA	OHARA	SCHOTT
H-ZK11	BaCD18	S-BSM18	N-SK18

Chemical Properties	
	Group
RC(S)	1
RA(S)	3
DW	2
DA	4

Thermal Properties	
Tg (℃)	623
T_S (℃)	697
$T_{10}^{14.5}$ (℃)	601
T_{10}^{13} (℃)	636
$\alpha_{20/120℃}$ (10^{-7}/K)	71
$\alpha_{20/300℃}$ (10^{-7}/K)	82

Mechanical Properties	
Hardness (10^7Pa)	512
F_A (Relative Abrasion)	
Young's Modulus (10^7Pa)	8711
Rigidity Modulus (10^7Pa)	3423
Poisson's Ratio	0.272

Photoelastic Constant	
β (10^{-12}/Pa)	

Color	
λ_{80}/λ_5	38/33

Specific Gravity	
ρ (g/cm^3)	3.66

Internal Transmission		
λ (nm)	τ5mm	τ10mm
2400	0.880	0.780
2200	0.945	0.893
2000	0.981	0.962
1800	0.991	0.982
1600	0.997	0.994
1400	0.998	0.997
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.997	0.995
480	0.996	0.993
460	0.994	0.989
440	0.993	0.986
420	0.991	0.983
400	0.983	0.967
390	0.974	0.948
380	0.952	0.907
370	0.911	0.830
360	0.820	0.680
350	0.660	0.430
340	0.370	0.140
330	0.080	0.010
320		
310		
300		
290		
280		

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