

<b>H-ZK6</b>	<b>613586</b>
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nd =1.61272	vd =58.58	nF – nC =0.010460
ne =1.61521	ve =58.30	nF' - nc' =0.010552

Refractive Indices		
	$\lambda$ ( nm )	
$n_r$	706.5	1.60774
$n_c$	656.3	1.60954
$n_{c'}$	643.8	1.61005
$n_{He-Ne}$	632.8	1.61052
$n_D$	589.3	1.61262
$n_d$	587.6	1.61272
$n_e$	546.1	1.61521
$n_F$	486.1	1.62000
$n_{F'}$	480.0	1.62060
$n_g$	435.8	1.62570
$n_h$	404.7	1.63043
$n_i$	365.0	1.63850

Constants of Dispersion (Cauchy)	
$A_0$	2.5584621
$A_1$	$-9.74572831 \times 10^{-3}$
$A_2$	$1.51104951 \times 10^{-2}$
$A_3$	$2.32733331 \times 10^{-4}$
$A_4$	$1.11372491 \times 10^{-6}$
$A_5$	$1.64247671 \times 10^{-7}$

Relative Partial Dispersions			
$P_{d,c}$	0.304	$P'_{d,c'}$	0.2531
$P_{e,d}$	0.238	$P'_{e,d}$	0.236
$P_{g,F}$	0.5449	$P'_{g,F'}$	0.4834

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0014

NHG	HOYA	OHARA	SCHOTT
H-ZK6	BACD4	S-BSM4	N-SK4

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

Thermal Properties	
$T_g$ ( °C )	655
$T_s$ ( °C )	710
$T_{10}^{14.5}$ ( °C )	602
$T_{10}^{13}$ ( °C )	640
$\alpha_{20/120^\circ C}$ ( $10^{-7}/K$ )	67.15
$\alpha_{20/300^\circ C}$ ( $10^{-7}/K$ )	73.87

Mechanical Properties	
Hardness ( $10^7 Pa$ )	516
FA (Relative Abrasion)	
Young's Modulus ( $10^7 Pa$ )	8253
Rigidity Modulus ( $10^7 Pa$ )	3256
Poisson's Ratio	0.267

Photoelastic Constant	
$\beta$ ( $10^{-12}/Pa$ )	

Color	
$\lambda_{80}/\lambda_5$	36/31

Specific Gravity	
$\rho$ ( $g/cm^3$ )	3.54

Internal Transmittance		
$\lambda$ ( nm )	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.905	0.819
2200	0.952	0.906
2000	0.985	0.97
1800	0.993	0.987
1600	0.998	0.996
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.998	0.996
850	0.997	0.995
800	0.996	0.993
700	0.996	0.993
650	0.996	0.992
600	0.996	0.992
550	0.995	0.991
500	0.995	0.99
480	0.994	0.988
460	0.993	0.986
440	0.992	0.984
420	0.992	0.984
400	0.989	0.979
390	0.985	0.971
380	0.978	0.956
370	0.963	0.928
360	0.934	0.873
350	0.88	0.78
340	0.79	0.62
330	0.63	0.4
320	0.41	0.17
310	0.17	0.03
300		
290		
280		



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