

<b>H-LaK61</b>	<b>741527</b>
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nd =1.74100	vd =52.70	nF - nC =0.014070
ne =1.74435	ve =52.41	nF' - nc' =0.014203

Refractive Indices		
	$\lambda$ ( nm )	
$n_f$	706.5	1.73430
$n_c$	656.3	1.73673
$n_{c'}$	643.8	1.73741
$n_{He-Ne}$	632.8	1.73804
$n_D$	589.3	1.74087
$n_d$	587.6	1.74100
$n_e$	546.1	1.74435
$n_F$	486.1	1.75080
$n_{F'}$	480.0	1.75161
$n_g$	435.8	1.75850
$n_h$	404.7	1.76491
$n_i$	365.0	1.77589

Constants of Dispersion (Cauchy)	
$A_0$	2.963922413
$A_1$	$-1.0285169 \times 10^{-2}$
$A_2$	$2.5153424 \times 10^{-2}$
$A_3$	$-5.5319044 \times 10^{-4}$
$A_4$	$1.1677298 \times 10^{-4}$
$A_5$	$-4.9504306 \times 10^{-6}$

Relative Partial Dispersions			
$P_{d,c}$	0.3035	$P'_{d,c'}$	0.2528
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2359
$P_{g,F}$	0.5473	$P'_{g,F'}$	0.4852

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0027
$\Delta P_{g,F}$	-0.0088

NHG	HOYA	OHARA	SCHOTT
H - LaK61	TAC2	S - LAL61	

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

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

Mechanical Properties	
Hardness ( $10^7 Pa$ )	720
FA (Relative Abrasion)	
Young's Modulus ( $10^7 Pa$ )	11900
Rigidity Modulus ( $10^7 Pa$ )	4610
Poisson's Ratio	0.291

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

Color	
$\lambda_{80}/\lambda_5$	37/29

Specific Gravity	
$\rho$ ( $g/cm^3$ )	4.04

Internal Transmittance		
$\lambda$ ( nm )	$\tau_{5mm}$	$\tau_{10mm}$
2400		0.62
2200		0.88
2000		0.959
1800		0.985
1600		0.994
1400		0.994
1200		0.998
1060		0.998
1000		0.998
950		0.998
900		0.998
850		0.998
800		0.998
700		0.998
650		0.997
600		0.997
550		0.997
500		0.996
480		0.994
460		0.991
440		0.988
420		0.982
400		0.971
390		0.958
380		0.935
370		0.89
360		0.82
350		0.72
340		0.59
330		0.43
320		0.27
310		0.15
300		0.07
290		0.02
280		



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