

## N-KZFS4HT 613445.300

$n_d = 1.61336$	$v_d = 44.49$	$n_F - n_C = 0.013785$
$n_e = 1.61664$	$v_e = 44.27$	$n_{F'} - n_{C'} = 0.013929$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.57535
$n_{1970.1}$	1970.1	1.58233
$n_{1529.6}$	1529.6	1.58971
$n_{1060.0}$	1060.0	1.59739
$n_t$	1014.0	1.59828
$n_s$	852.1	1.60199
$n_r$	706.5	1.60688
$n_C$	656.3	1.60922
$n_{C'}$	643.8	1.60987
$n_{632.8}$	632.8	1.61049
$n_D$	589.3	1.61324
$n_d$	587.6	1.61336
$n_e$	546.1	1.61664
$n_F$	486.1	1.62300
$n_{F'}$	480.0	1.62380
$n_g$	435.8	1.63071
$n_h$	404.7	1.63723
$n_i$	365.0	1.64865
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.510	0.186
2325	0.749	0.486
1970	0.951	0.881
1530	0.984	0.961
1060	0.999	0.999
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.993
500	0.995	0.988
460	0.992	0.980
436	0.990	0.975
420	0.988	0.971
405	0.986	0.966
400	0.985	0.962
390	0.980	0.951
380	0.973	0.934
370	0.959	0.901
365	0.948	0.874
350	0.867	0.700
334	0.549	0.223
320	0.060	0.002
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2694
$P_{C,s}$	0.5240
$P_{d,C}$	0.3006
$P_{e,d}$	0.2378
$P_{g,F}$	0.5590
$P_{i,h}$	0.8284
$P'_{s,t}$	0.2666
$P'_{C',s}$	0.5657
$P'_{d,C'}$	0.2503
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.4958
$P'_{i,h}$	0.8199

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	0.0373
$\Delta P_{C,s}$	0.0173
$\Delta P_{F,e}$	-0.0033
$\Delta P_{g,F}$	-0.0100
$\Delta P_{i,g}$	-0.0496

Constants of Dispersion Formula	
$B_1$	1.35055424
$B_2$	0.197575506
$B_3$	1.09962992
$C_1$	0.0087628207
$C_2$	0.0371767201
$C_3$	90.3866994

Constants of Dispersion $dn/dT$	
$D_0$	$1.81 \cdot 10^{-6}$
$D_1$	$1.16 \cdot 10^{-8}$
$D_2$	$-7.99 \cdot 10^{-12}$
$E_0$	$6.20 \cdot 10^{-7}$
$E_1$	$7.94 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.205

Color Code	
$\lambda_{80}/\lambda_5$	36/32
(*= $\lambda_{70}/\lambda_5$ )	

Remarks
suitable for precision molding, step 0.5 available

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.3
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.2
$T_g [^\circ C]$	536
$T_{10}^{13.0} [^\circ C]$	541
$T_{10}^{7.6} [^\circ C]$	664
$c_p [J/(g \cdot K)]$	0.760
$\lambda [W/(m \cdot K)]$	0.840
$AT [^\circ C]$	597
$\rho [g/cm^3]$	3.00
$E [10^3 N/mm^2]$	78
$\mu$	0.241
$K [10^{-6} mm^2/N]$	3.90
$HK_{0.1/20}$	520
$HG$	3
$Abrasion Aa$	130
$CR$	1
$FR$	1
$SR$	3.4
$AR$	1.2
$PR$	1
$SR-J$	6
$WR-J$	4

Temperature Coefficients of Refractive Index						
[ $^\circ C$ ]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	1060.0	e	g	1060.0	e	g
-40/ -20	2.7	3.5	4.4	0.5	1.3	2.2
+20/ +40	2.7	3.7	4.7	1.3	2.3	3.2
+60/ +80	2.8	3.9	5.0	1.7	2.8	3.9