

## N-KZFS4 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	0.998	0.996
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.992
500	0.995	0.987
460	0.990	0.976
436	0.987	0.968
420	0.984	0.961
405	0.981	0.952
400	0.979	0.948
390	0.971	0.930
380	0.963	0.910
370	0.941	0.860
365	0.924	0.820
350	0.815	0.600
334	0.468	0.150
320	0.040	
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