

## N-KZFS2 558540.255

$n_d = 1.55836$	$v_d = 54.01$	$n_F - n_C = 0.010338$
$n_e = 1.56082$	$v_e = 53.83$	$n_{F'} - n_{C'} = 0.010418$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.52239
$n_{1970.1}$	1970.1	1.53011
$n_{1529.6}$	1529.6	1.53798
$n_{1060.0}$	1060.0	1.54546
$n_t$	1014.0	1.54625
$n_s$	852.1	1.54944
$n_r$	706.5	1.55337
$n_C$	656.3	1.55519
$n_{C'}$	643.8	1.55570
$n_{632.8}$	632.8	1.55617
$n_D$	589.3	1.55827
$n_d$	587.6	1.55836
$n_e$	546.1	1.56082
$n_F$	486.1	1.56553
$n_{F'}$	480.0	1.56612
$n_g$	435.8	1.57114
$n_h$	404.7	1.57580
$n_i$	365.0	1.58382
$n_{334.1}$	334.1	1.59259
$n_{312.6}$	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	0.276	0.040
2325	0.583	0.260
1970	0.915	0.800
1530	0.976	0.940
1060	0.996	0.991
700	0.998	0.996
660	0.998	0.994
620	0.998	0.994
580	0.998	0.994
546	0.998	0.994
500	0.997	0.992
460	0.995	0.987
436	0.992	0.981
420	0.990	0.975
405	0.987	0.967
400	0.985	0.963
390	0.980	0.950
380	0.971	0.930
370	0.963	0.910
365	0.954	0.890
350	0.915	0.800
334	0.810	0.590
320	0.565	0.240
310	0.246	0.030
300	0.012	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.3080
$P_{C,s}$	0.5568
$P_{d,C}$	0.3061
$P_{e,d}$	0.2383
$P_{g,F}$	0.5419
$P_{i,h}$	0.7758
$P'_{s,t}$	0.3056
$P'_{C',s}$	0.6011
$P'_{d,C'}$	0.2552
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4814
$P'_{i,h}$	0.7699

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

$\Delta P_{C,t}$	0.0636
$\Delta P_{C,s}$	0.0280
$\Delta P_{F,e}$	-0.0044
$\Delta P_{g,F}$	-0.0111
$\Delta P_{i,g}$	-0.0440

Constants of Dispersion Formula	
$B_1$	1.23697554
$B_2$	0.153569376
$B_3$	0.903976272
$C_1$	0.00747170505
$C_2$	0.0308053556
$C_3$	70.1731084

Constants of Dispersion $dn/dT$	
$D_0$	$6.77 \cdot 10^{-6}$
$D_1$	$1.31 \cdot 10^{-8}$
$D_2$	$-1.23 \cdot 10^{-11}$
$E_0$	$3.84 \cdot 10^{-7}$
$E_1$	$5.51 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.196

Color Code	
$\lambda_{80}/\lambda_5$	34/30
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	
suitable for precision molding, step 0.5 available	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	4.4
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	5.4
$T_g [^\circ C]$	472
$T_{10}^{13.0} [^\circ C]$	488
$T_{10}^{7.6} [^\circ C]$	600
$c_p [J/(g \cdot K)]$	0.830
$\lambda [W/(m \cdot K)]$	0.810
$AT [^\circ C]$	533
$\rho [g/cm^3]$	2.54
$E [10^3 N/mm^2]$	66
$\mu$	0.266
$K [10^{-6} mm^2/N]$	4.02
$HK_{0.1/20}$	490
$HG$	3
$Abrasion Aa$	70
$CR$	1
$FR$	4
$SR$	52.3
$AR$	4.3
$PR$	4.2
$SR-J$	6
$WR-J$	6

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	4.6	5.2	5.7	2.5	3.0	3.5
+20/ +40	4.7	5.3	5.9	3.3	3.9	4.5
+60/ +80	4.8	5.5	6.2	3.8	4.5	5.1