

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		
	λ [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 τ_i		
λ [nm]	τ_i (10mm)	τ_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 ΔP 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	
λ_{80}/λ_5	34/30
(*= λ_{70}/λ_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
μ	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