

N-KZFS5 654397.304

$n_d = 1.65412$	$v_d = 39.70$	$n_F - n_C = 0.016477$
$n_e = 1.65803$	$v_e = 39.46$	$n_{F'} - n_{C'} = 0.016675$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.61392
$n_{1970.1}$	1970.1	1.62058
$n_{1529.6}$	1529.6	1.62780
$n_{1060.0}$	1060.0	1.63577
n_t	1014.0	1.63673
n_s	852.1	1.64087
n_r	706.5	1.64649
n_C	656.3	1.64922
$n_{C'}$	643.8	1.65000
$n_{632.8}$	632.8	1.65072
n_D	589.3	1.65398
n_d	587.6	1.65412
n_e	546.1	1.65803
n_F	486.1	1.66570
$n_{F'}$	480.0	1.66667
n_g	435.8	1.67511
n_h	404.7	1.68318
n_i	365.0	1.69756
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.657	0.350
2325	0.826	0.620
1970	0.963	0.910
1530	0.988	0.970
1060	0.999	0.998
700	0.998	0.994
660	0.997	0.992
620	0.997	0.992
580	0.997	0.993
546	0.997	0.992
500	0.994	0.985
460	0.990	0.974
436	0.986	0.965
420	0.983	0.958
405	0.978	0.946
400	0.976	0.940
390	0.967	0.920
380	0.950	0.880
370	0.928	0.830
365	0.910	0.790
350	0.793	0.560
334	0.372	0.080
320	0.017	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2511
$P_{C,s}$	0.5070
$P_{d,C}$	0.2972
$P_{e,d}$	0.2374
$P_{g,F}$	0.5710
$P_{i,h}$	0.8729
$P'_{s,t}$	0.2481
$P'_{C',s}$	0.5473
$P'_{d,C'}$	0.2474
$P'_{e,d}$	0.2345
$P'_{g,F'}$	0.5060
$P'_{i,h}$	0.8625

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"

$\Delta P_{C,t}$	0.0248
$\Delta P_{C,s}$	0.0115
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0060
$\Delta P_{i,g}$	-0.0286

Constants of Dispersion Formula	
B_1	1.47460789
B_2	0.193584488
B_3	1.26589974
C_1	0.00986143816
C_2	0.0445477583
C_3	106.436258

Constants of Dispersion dn/dT	
D_0	$4.54 \cdot 10^{-6}$
D_1	$1.19 \cdot 10^{-8}$
D_2	$2.93 \cdot 10^{-12}$
E_0	$6.89 \cdot 10^{-7}$
E_1	$8.60 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.23

Color Code	
λ_{80}/λ_5	37/32
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding, step 0.5 available

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.4
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.4
$T_g [^\circ C]$	584
$T_{10}^{13.0} [^\circ C]$	593
$T_{10}^{7.6} [^\circ C]$	739
$c_p [J/(g \cdot K)]$	0.730
$\lambda [W/(m \cdot K)]$	0.950
$AT [^\circ C]$	648
$\rho [g/cm^3]$	3.04
$E [10^3 N/mm^2]$	89
μ	0.243
$K [10^{-6} mm^2/N]$	3.57
$HK_{0.1/20}$	555
HG	
$Abrasion Aa$	122
CR	1
FR	0
SR	1
AR	1
PR	1
$SR-J$	1
$WR-J$	1

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	4.2	5.3	6.5	2.0	3.1	4.2
+20/ +40	4.2	5.5	6.8	2.8	4.0	5.4
+60/ +80	4.4	5.8	7.3	3.3	4.7	6.1