

## 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		
	$\lambda$ [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
$n_f$	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	

Constants of Dispersion Formula	
$B_1$	1.47460789
$B_2$	0.193584488
$B_3$	1.265899740
$C_1$	0.00986143816
$C_2$	0.0445477583
$C_3$	106.4362580

Constants of Formula for $dn/dT$	
$D_0$	4.54E-06
$D_1$	1.19E-08
$D_2$	2.93E-12
$E_0$	6.89E-07
$E_1$	8.60E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.230

Temperature Coefficients of the Refractive Index						
[ $^{\circ}\text{C}$ ]	$\Delta n_{rel}/\Delta T$ [ $10^{-6}/\text{K}$ ]			$\Delta n_{abs}/\Delta T$ [ $10^{-6}/\text{K}$ ]		
	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

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.660	0.350
2325	0.830	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	0.950
400	0.976	0.940
390	0.967	0.920
380	0.950	0.880
370	0.930	0.830
365	0.910	0.790
350	0.790	0.560
334	0.370	0.080
320	0.020	0.000
310	0.000	
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	37/32

Remarks
suitable for precision molding, step 0.5 available

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 Dispersion $\Delta P$ 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

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [ $10^{-6}/\text{K}$ ]	6.4
$\alpha_{+20/+300^{\circ}\text{C}}$ [ $10^{-6}/\text{K}$ ]	7.4
$T_g$ [ $^{\circ}\text{C}$ ]	584
$T_{10}^{13}$ [ $^{\circ}\text{C}$ ]	593
$T_{10}^{7.6}$ [ $^{\circ}\text{C}$ ]	739
$c_p$ [ $\text{J}/(\text{g}\cdot\text{K})$ ]	0.730
$\lambda$ [ $\text{W}/(\text{m}\cdot\text{K})$ ]	0.950
$AT$ [ $^{\circ}\text{C}$ ]	648
$\rho$ [ $\text{g}/\text{cm}^3$ ]	3.04
$E$ [ $10^3 \text{ N}/\text{mm}^2$ ]	89
$\mu$	0.243
$K$ [ $10^{-6} \text{ mm}^2/\text{N}$ ]	3.57
$HK_{0.1/20}$	555
<b>Abrasion Aa</b>	122
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	1
<b>AR</b>	1
<b>PR</b>	1
<b>SR-J</b>	1
<b>WR-J</b>	1