

## 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
$n_r$	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 $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (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 $\Delta P$ 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

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

Color Code	
$\lambda_{80}/\lambda_5$	37/32
(*= $\lambda_{70}/\lambda_5$ )	

Remarks
suitable for precision molding, step 0.5 available

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

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	6.4
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	7.4
$T_g$ [°C]	584
$T_{10}^{13.0}$ [°C]	593
$T_{10}^{7.6}$ [°C]	739
$c_p$ [J/(g·K)]	0.730
$\lambda$ [W/(m·K)]	0.950
AT [°C]	648
$\rho$ [g/cm <sup>3</sup> ]	3.04
E [ $10^3$ N/mm <sup>2</sup> ]	89
$\mu$	0.243
K [ $10^{-6}$ mm <sup>2</sup> /N]	3.57
HK <sub>0.1/20</sub>	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						
[°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