

## N-KZFS8 720347.320

$n_d = 1.72047$	$v_d = 34.70$	$n_F - n_C = 0.020763$
$n_e = 1.72539$	$v_e = 34.47$	$n_{F'} - n_{C'} = 0.021046$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.67524
$n_{1970.1}$	1970.1	1.68193
$n_{1529.6}$	1529.6	1.68939
$n_{1060.0}$	1060.0	1.69816
$n_t$	1014.0	1.69927
$n_s$	852.1	1.70416
$n_r$	706.5	1.71099
$n_C$	656.3	1.71437
$n_{C'}$	643.8	1.71532
$n_{632.8}$	632.8	1.71622
$n_D$	589.3	1.72029
$n_d$	587.6	1.72047
$n_e$	546.1	1.72539
$n_F$	486.1	1.73513
$n_{F'}$	480.0	1.73637
$n_g$	435.8	1.74724
$n_h$	404.7	1.75777
$n_i$	365.0	1.77690
$n_{334.1}$	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	0.764	0.510
2325	0.867	0.700
1970	0.967	0.920
1530	0.993	0.983
1060	0.999	0.999
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.997	0.993
500	0.994	0.985
460	0.988	0.971
436	0.982	0.955
420	0.976	0.940
405	0.967	0.920
400	0.963	0.910
390	0.946	0.870
380	0.924	0.820
370	0.887	0.740
365	0.857	0.680
350	0.665	0.360
334	0.141	0.010
320	0.042	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2353
$P_{C,s}$	0.4916
$P_{d,C}$	0.2940
$P_{e,d}$	0.2369
$P_{g,F}$	0.5833
$P_{i,h}$	0.9212
$P'_{s,t}$	0.2322
$P'_{C',s}$	0.5305
$P'_{d,C'}$	0.2445
$P'_{e,d}$	0.2337
$P'_{g,F'}$	0.5165
$P'_{i,h}$	0.9088

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

$\Delta P_{C,t}$	0.0173
$\Delta P_{C,s}$	0.0078
$\Delta P_{F,e}$	-0.0011
$\Delta P_{g,F}$	-0.0021
$\Delta P_{i,g}$	-0.0048

Constants of Dispersion Formula	
$B_1$	1.62693651
$B_2$	0.24369876
$B_3$	1.62007141
$C_1$	0.010880863
$C_2$	0.0494207753
$C_3$	131.009163

Constants of Dispersion $dn/dT$	
$D_0$	$7.93 \cdot 10^{-7}$
$D_1$	$6.47 \cdot 10^{-9}$
$D_2$	$-5.00 \cdot 10^{-12}$
$E_0$	$7.71 \cdot 10^{-7}$
$E_1$	$1.01 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.254

Color Code	
$\lambda_{80}/\lambda_5$	38/33
(*= $\lambda_{70}/\lambda_5$ )	

Remarks
suitable for precision molding, step 0.5 available

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.8
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.4
$T_g [^\circ C]$	509
$T_{10}^{13.0} [^\circ C]$	515
$T_{10}^{7.6} [^\circ C]$	635
$c_p [J/(g \cdot K)]$	0.760
$\lambda [W/(m \cdot K)]$	1.050
$AT [^\circ C]$	561
$\rho [g/cm^3]$	3.20
$E [10^3 N/mm^2]$	103
$\mu$	0.248
$K [10^{-6} mm^2/N]$	2.94
$HK_{0.1/20}$	570
$HG$	4
<b>Abrasion Aa</b>	152
<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

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	2.7	4.1	5.6	0.4	1.7	3.2
+20/ +40	2.4	4.0	5.8	0.9	2.5	4.2
+60/ +80	2.4	4.1	6.1	1.2	2.9	4.9