

N-KZFS4 613445.300

$n_d = 1.61336$	$v_d = 44.49$	$n_F - n_C = 0.013785$
$n_e = 1.61664$	$v_e = 44.27$	$n_{F'} - n_{C'} = 0.013929$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.57535
$n_{1970.1}$	1970.1	1.58233
$n_{1529.6}$	1529.6	1.58971
$n_{1060.0}$	1060.0	1.59739
n_t	1014.0	1.59828
n_s	852.1	1.60199
n_r	706.5	1.60688
n_C	656.3	1.60922
$n_{C'}$	643.8	1.60987
$n_{632.8}$	632.8	1.61049
n_D	589.3	1.61324
n_d	587.6	1.61336
n_e	546.1	1.61664
n_F	486.1	1.62300
$n_{F'}$	480.0	1.62380
n_g	435.8	1.63071
n_h	404.7	1.63723
n_i	365.0	1.64865
$n_{334.1}$	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	0.510	0.186
2325	0.749	0.486
1970	0.951	0.881
1530	0.984	0.961
1060	0.998	0.996
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.992
500	0.995	0.987
460	0.990	0.976
436	0.987	0.968
420	0.984	0.961
405	0.981	0.952
400	0.979	0.948
390	0.971	0.930
380	0.963	0.910
370	0.941	0.860
365	0.924	0.820
350	0.815	0.600
334	0.468	0.150
320	0.040	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2694
$P_{C,s}$	0.5240
$P_{d,C}$	0.3006
$P_{e,d}$	0.2378
$P_{g,F}$	0.5590
$P_{i,h}$	0.8284
$P'_{s,t}$	0.2666
$P'_{C',s}$	0.5657
$P'_{d,C'}$	0.2503
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.4958
$P'_{i,h}$	0.8199

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

$\Delta P_{C,t}$	0.0373
$\Delta P_{C,s}$	0.0173
$\Delta P_{F,e}$	-0.0033
$\Delta P_{g,F}$	-0.0100
$\Delta P_{i,g}$	-0.0496

Constants of Dispersion Formula	
B_1	1.35055424
B_2	0.197575506
B_3	1.09962992
C_1	0.0087628207
C_2	0.0371767201
C_3	90.3866994

Constants of Dispersion dn/dT	
D_0	$1.81 \cdot 10^{-6}$
D_1	$1.16 \cdot 10^{-8}$
D_2	$-7.99 \cdot 10^{-12}$
E_0	$6.20 \cdot 10^{-7}$
E_1	$7.94 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.205

Color Code	
λ_{80}/λ_5	36/32
(* = λ_{70}/λ_5)	

Remarks
suitable for precision molding, step 0.5 available

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.3
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.2
$T_g [^\circ C]$	536
$T_{10}^{13.0} [^\circ C]$	541
$T_{10}^{7.6} [^\circ C]$	664
$c_p [J/(g \cdot K)]$	0.760
$\lambda [W/(m \cdot K)]$	0.840
$AT [^\circ C]$	597
$\rho [g/cm^3]$	3.00
$E [10^3 N/mm^2]$	78
μ	0.241
$K [10^{-6} mm^2/N]$	3.90
$HK_{0.1/20}$	520
HG	3
Abrasion Aa	130
CR	1
FR	1
SR	3.4
AR	1.2
PR	1
SR-J	6
WR-J	4

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	3.5	4.4	0.5	1.3	2.2
+20/ +40	2.7	3.7	4.7	1.3	2.3	3.2
+60/ +80	2.8	3.9	5.0	1.7	2.8	3.9