

N-KZFS11 638424.320

$n_d = 1.63775$	$v_d = 42.41$	$n_F - n_C = 0.015038$
$n_e = 1.64132$	$v_e = 42.20$	$n_{F'} - n_{C'} = 0.015198$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.59699
$n_{1970.1}$	1970.1	1.60439
$n_{1529.6}$	1529.6	1.61223
$n_{1060.0}$	1060.0	1.62044
n_t	1014.0	1.62139
n_s	852.1	1.62540
n_r	706.5	1.63069
n_C	656.3	1.63324
$n_{C'}$	643.8	1.63395
$n_{632.8}$	632.8	1.63462
n_D	589.3	1.63762
n_d	587.6	1.63775
n_e	546.1	1.64132
n_F	486.1	1.64828
$n_{F'}$	480.0	1.64915
n_g	435.8	1.65670
n_h	404.7	1.66385
n_i	365.0	1.67636
$n_{334.1}$	334.1	1.69037
$n_{312.6}$	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	0.507	0.183
2325	0.779	0.535
1970	0.965	0.914
1530	0.991	0.977
1060	0.999	0.999
700	0.998	0.994
660	0.997	0.992
620	0.997	0.992
580	0.997	0.992
546	0.997	0.993
500	0.996	0.989
460	0.993	0.982
436	0.991	0.978
420	0.990	0.975
405	0.988	0.971
400	0.987	0.968
390	0.983	0.957
380	0.976	0.940
370	0.963	0.910
365	0.950	0.880
350	0.882	0.730
334	0.727	0.450
320	0.468	0.150
310	0.230	0.020
300	0.048	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2664
$P_{C,s}$	0.5212
$P_{d,C}$	0.3000
$P_{e,d}$	0.2377
$P_{g,F}$	0.5605
$P_{i,h}$	0.8319
$P'_{s,t}$	0.2636
$P'_{C',s}$	0.5627
$P'_{d,C'}$	0.2499
$P'_{e,d}$	0.2352
$P'_{g,F'}$	0.4971
$P'_{i,h}$	0.8232

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

$\Delta P_{C,t}$	0.0415
$\Delta P_{C,s}$	0.0194
$\Delta P_{F,e}$	-0.0039
$\Delta P_{g,F}$	-0.0120
$\Delta P_{i,g}$	-0.0617

Constants of Dispersion Formula	
B_1	1.3322245
B_2	0.28924161
B_3	1.15161734
C_1	0.0084029848
C_2	0.034423972
C_3	88.4310532

Constants of Dispersion dn/dT	
D_0	$3.34 \cdot 10^{-6}$
D_1	$1.16 \cdot 10^{-8}$
D_2	$-1.80 \cdot 10^{-11}$
E_0	$6.32 \cdot 10^{-7}$
E_1	$7.21 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.206

Color Code	
λ_{80}/λ_5	36/30
(* = λ_{70}/λ_5)	

Remarks
suitable for precision molding, step 0.5 available

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.6
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.6
$T_g [^\circ C]$	551
$T_{10}^{13.0} [^\circ C]$	554
$T_{10}^{7.6} [^\circ C]$	0
$c_p [J/(g \cdot K)]$	0.690
$\lambda [W/(m \cdot K)]$	0.810
$\rho [g/cm^3]$	3.20
$E [10^3 N/mm^2]$	79
μ	0.251
$K [10^{-6} mm^2/N]$	4.21
$HK_{0.1/20}$	530
HG	3
Abrasion Aa	74
CR	1
FR	1
SR	3.4
AR	1
PR	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	3.5	4.4	5.4	1.3	2.2	3.1
+20/ +40	3.5	4.6	5.7	2.1	3.1	4.2
+60/ +80	3.6	4.8	6.0	2.5	3.7	4.8