

LF7
575415.320

$n_d = 1.57501$	$v_d = 41.49$	$n_F - n_C = 0.013859$
$n_e = 1.57830$	$v_e = 41.22$	$n_{F'} - n_{C'} = 0.014031$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.54325
$n_{1970.1}$	1970.1	1.54818
$n_{1529.6}$	1529.6	1.55360
$n_{1060.0}$	1060.0	1.55982
n_t	1014.0	1.56059
n_s	852.1	1.56396
n_r	706.5	1.56862
n_C	656.3	1.57090
$n_{C'}$	643.8	1.57155
$n_{632.8}$	632.8	1.57216
n_D	589.3	1.57489
n_d	587.6	1.57501
n_e	546.1	1.57830
n_F	486.1	1.58476
$n_{F'}$	480.0	1.58558
n_g	435.8	1.59271
n_h	404.7	1.59953
n_i	365.0	1.61172
$n_{334.1}$	334.1	1.62578
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.26879731
B_2	0.156697051
B_3	0.887676301
C_1	0.00919553925
C_2	0.0447256764
C_3	106.8203610

Constants of Formula for dn/dT	
D_0	1.11E-06
D_1	1.56E-08
D_2	-1.79E-11
E_0	7.99E-07
E_1	8.55E-10
λ_{TK} [μm]	0.229

Temperature Coefficients of the 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	2.1	3.2	4.4	0.0	1.1	2.2
+20/+40	2.3	3.6	5.0	1.0	2.2	3.5
+60/+80	2.6	4.0	5.4	1.5	2.9	4.3

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500		
2325		
1970		
1530		
1060		
700	0.996	0.990
660	0.997	0.993
620	0.998	0.994
580	0.998	0.994
546	0.998	0.995
500	0.998	0.995
460	0.998	0.995
436	0.998	0.995
420	0.998	0.994
405	0.997	0.993
400	0.996	0.990
390	0.996	0.990
380	0.994	0.985
370	0.990	0.975
365	0.985	0.963
350	0.950	0.880
334	0.790	0.560
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80} / λ_5	35/32

(* = λ_{70}/λ_5)

Remarks
suitable for precision molding,
step 0.5 available

Relative Partial Dispersion	
$P_{s,t}$	0.2433
$P_{C,s}$	0.5008
$P_{d,C}$	0.2963
$P_{e,d}$	0.2373
$P_{g,F}$	0.5733
$P_{i,h}$	0.8791
$P'_{s,t}$	0.2403
$P'_{C,s}$	0.5408
$P'_{d,C'}$	0.2466
$P'_{e,d}$	0.2344
$P'_{g,F'}$	0.5079
$P'_{i,h}$	0.8683

Deviation of Relative Partial Dispersion ΔP from the normal line	
$\Delta P_{C,t}$	0.0024
$\Delta P_{C,s}$	0.0012
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0048

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	9.0
T_g [°C]	442
T_{10}^{13} [°C]	440
$T_{10}^{7.6}$ [°C]	
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.20
E [10^3 N/mm ²]	58
μ	0.213
K [10^{-6} mm ² /N]	3.09
$HK_{0.1/20}$	440
CR	1
FR	0
SR	1
AR	2.3
PR	2.3