

P-BK7
516641.243

$n_d = 1.51640$	$v_d = 64.06$	$n_F - n_C = 0.008061$
$n_e = 1.51832$	$v_e = 63.87$	$n_F' - n_C' = 0.008115$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.48811
$n_{1970.1}$	1970.1	1.49407
$n_{1529.6}$	1529.6	1.50025
$n_{1060.0}$	1060.0	1.50620
n_t	1014.0	1.50683
n_s	852.1	1.50936
n_f	706.5	1.51248
n_C	656.3	1.51392
$n_{C'}$	643.8	1.51431
$n_{632.8}$	632.8	1.51469
n_D	589.3	1.51633
n_d	587.6	1.51640
n_e	546.1	1.51832
n_F	486.1	1.52198
$n_{F'}$	480.0	1.52243
n_g	435.8	1.52628
n_h	404.7	1.52982
n_i	365.0	1.53583
$n_{334.1}$	334.1	1.54227
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.18318503
B_2	0.087175643
B_3	1.031337010
C_1	0.00722141956
C_2	0.0268216805
C_3	101.7023620

Constants of Formula for dn/dT	
D_0	5.96E-06
D_1	1.36E-08
D_2	1.04E-12
E_0	5.00E-07
E_1	6.97E-10
λ_{TK} [μm]	0.125

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	4.1	4.7	5.2	2.1	2.6	3.1
+20/+40	4.1	4.8	5.3	2.8	3.5	4.0
+60/+80	4.3	5.1	5.7	3.3	4.0	4.6

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.730	0.460
2325	0.870	0.700
1970	0.967	0.920
1530	0.992	0.979
1060	0.999	0.999
700	0.999	0.997
660	0.999	0.997
620	0.999	0.997
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.998	0.995
436	0.998	0.994
420	0.997	0.994
405	0.997	0.993
400	0.997	0.992
390	0.996	0.990
380	0.994	0.986
370	0.992	0.979
365	0.989	0.973
350	0.971	0.930
334	0.880	0.730
320	0.570	0.240
310	0.180	0.020
300	0.000	
290		
280		
270		
260		
250		

Color Code	
λ_{80} / λ_5	33/30

(* = λ_{70}/λ_5)

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.3143
$P_{C,s}$	0.5649
$P_{d,C}$	0.3082
$P_{e,d}$	0.2387
$P_{g,F}$	0.5335
$P_{i,h}$	0.7455
$P'_{s,t}$	0.3122
$P'_{C,s}$	0.6102
$P'_{d,C'}$	0.2571
$P'_{e,d}$	0.2371
$P'_{g,F'}$	0.4742
$P'_{i,h}$	0.7405

Deviation of Relative Partial Dispersion ΔP from the normal line	
$\Delta P_{C,t}$	0.0303
$\Delta P_{C,s}$	0.0126
$\Delta P_{F,e}$	-0.0016
$\Delta P_{g,F}$	-0.0025
$\Delta P_{i,g}$	-0.0017

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.3
T_g [°C]	498
T_{10}^{13} [°C]	498
$T_{10}^{7.6}$ [°C]	657
c_p [J/(g·K)]	0.870
λ [W/(m·K)]	1.130
AT [°C]	546
ρ [g/cm ³]	2.43
E [10^3 N/mm ²]	85
μ	0.202
K [10^{-6} mm ² /N]	2.77
HK _{0.1/20}	627
Abrasion Aa	66
CR	1
FR	0
SR	1
AR	2.3
PR	2.3
SR-J	1
WR-J	4