

## 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		
	$\lambda$ [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
$n_r$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.733	0.460
2325	0.867	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	0.882	0.730
320	0.565	0.240
310	0.180	0.020
300	0.004	
290		
280		
270		
260		
250		

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 Dispersions $\Delta P$ 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

Constants of Dispersion Formula	
$B_1$	1.18318503
$B_2$	0.0871756426
$B_3$	1.03133701
$C_1$	0.00722141956
$C_2$	0.0268216805
$C_3$	101.702362

Constants of Dispersion $dn/dT$	
$D_0$	
$D_1$	
$D_2$	
$E_0$	
$E_1$	
$\lambda_{TK}$ [ $\mu\text{m}$ ]	

Color Code	
$\lambda_{80}/\lambda_5$	33/30
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	7.3
$T_g$ [ $^\circ\text{C}$ ]	498
$T_{10}^{13.0}$ [ $^\circ\text{C}$ ]	498
$T_{10}^{7.6}$ [ $^\circ\text{C}$ ]	657
$c_p$ [ $\text{J}/(\text{g}\cdot\text{K})$ ]	0.870
$\lambda$ [ $\text{W}/(\text{m}\cdot\text{K})$ ]	1.130
$AT$ [ $^\circ\text{C}$ ]	546
$\rho$ [ $\text{g}/\text{cm}^3$ ]	2.43
$E$ [ $10^3 \text{N}/\text{mm}^2$ ]	85
$\mu$	0.202
$K$ [ $10^{-6} \text{mm}^2/\text{N}$ ]	2.77
$HK_{0.1/20}$	627
$HG$	
$Abrasion Aa$	66
$CR$	1
$FR$	0
$SR$	1
$AR$	2.3
$PR$	2.3
$SR-J$	1
$WR-J$	4

Temperature Coefficients of Refractive Index						
[ $^\circ\text{C}$ ]	$\Delta n_{rel}/\Delta T$ [ $10^{-6}/\text{K}$ ]			$\Delta n_{abs}/\Delta T$ [ $10^{-6}/\text{K}$ ]		
	1060.0	e	g	1060.0	e	g
-40/ -20						
+20/ +40						
+60/ +80						