

P-SK57Q1 586595.301

$n_d = 1.58600$	$v_d = 59.50$	$n_F - n_C = 0.009849$
$n_e = 1.58835$	$v_e = 59.26$	$n_F' - n_C' = 0.009928$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.55583
$n_{1970.1}$	1970.1	1.56169
$n_{1529.6}$	1529.6	1.56784
$n_{1060.0}$	1060.0	1.57407
n_t	1014.0	1.57476
n_s	852.1	1.57762
n_r	706.5	1.58127
n_C	656.3	1.58299
$n_{C'}$	643.8	1.58347
$n_{632.8}$	632.8	1.58392
n_D	589.3	1.58591
n_d	587.6	1.58600
n_e	546.1	1.58835
n_F	486.1	1.59284
$n_{F'}$	480.0	1.59340
n_g	435.8	1.59817
n_h	404.7	1.60260
n_i	365.0	1.61013
$n_{334.1}$	334.1	1.61826
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.30536483
B_2	0.171434328
B_3	1.101172190
C_1	0.00736408831
C_2	0.0255786047
C_3	106.7260600

Constants of Formula for dn/dT	
D_0	
D_1	
D_2	
E_0	
E_1	
λ_{TK} [μm]	

Temperature Coefficients of the 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						
+20/+40						
+60/+80						

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.400
2325	0.830	0.630
1970	0.954	0.890
1530	0.991	0.978
1060	0.999	0.997
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	0.995
460	0.996	0.991
436	0.996	0.989
420	0.995	0.987
405	0.994	0.985
400	0.994	0.984
390	0.992	0.980
380	0.989	0.973
370	0.984	0.960
365	0.980	0.950
350	0.950	0.870
334	0.820	0.610
320	0.480	0.160
310	0.120	0.000
300	0.000	
290		
280		
270		
260		
250		

Color Code	
λ_{80} / λ_5	34/31

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.2903
$P_{C,s}$	0.5454
$P_{d,C}$	0.3052
$P_{e,d}$	0.2385
$P_{g,F}$	0.5414
$P_{i,h}$	0.7652
$P'_{s,t}$	0.2880
$P'_{C,s}$	0.5894
$P'_{d,C'}$	0.2545
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4807
$P'_{i,h}$	0.7590

Deviation of Relative Partial Dispersion ΔP from the normal line	
$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0038
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	-0.0113

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	7.2
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	8.9
T_g [$^{\circ}C$]	493
T_{10}^{13} [$^{\circ}C$]	494
$T_{10}^{7.6}$ [$^{\circ}C$]	593
c_p [J/(g \cdot K)]	0.760
λ [W/(m \cdot K)]	1.010
AT [$^{\circ}C$]	522
ρ [g/cm 3]	3.01
E [10^3 N/mm 2]	93
μ	0.249
K [10^{-6} mm 2 /N]	2.17
HK $_{0.1/20}$	535
HG	3
Abrasion Aa	124
CR	4
FR	3
SR	52.3
AR	2
PR	3
SR-J	4
WR-J	1