

P-SK57 587596.301

$n_d = 1.58700$	$v_d = 59.60$	$n_F - n_C = 0.009849$
$n_e = 1.58935$	$v_e = 59.36$	$n_{F'} - n_{C'} = 0.009928$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.55688
$n_{1970.1}$	1970.1	1.56271
$n_{1529.6}$	1529.6	1.56885
$n_{1060.0}$	1060.0	1.57507
n_t	1014.0	1.57576
n_s	852.1	1.57862
n_r	706.5	1.58227
n_C	656.3	1.58399
$n_{C'}$	643.8	1.58447
$n_{632.8}$	632.8	1.58492
n_D	589.3	1.58691
n_d	587.6	1.58700
n_e	546.1	1.58935
n_F	486.1	1.59384
$n_{F'}$	480.0	1.59440
n_g	435.8	1.59917
n_h	404.7	1.60359
n_i	365.0	1.61112
$n_{334.1}$	334.1	1.61923
$n_{312.6}$	312.6	1.62669
$n_{296.7}$	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	0.693	0.400
2325	0.831	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	0.946	0.870
334	0.821	0.610
320	0.480	0.160
310	0.123	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2902
$P_{C,s}$	0.5454
$P_{d,C}$	0.3053
$P_{e,d}$	0.2385
$P_{g,F}$	0.5412
$P_{i,h}$	0.7644
$P'_{s,t}$	0.2878
$P'_{C',s}$	0.5894
$P'_{d,C'}$	0.2545
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4806
$P'_{i,h}$	0.7583

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

$\Delta P_{C,t}$	0.0079
$\Delta P_{C,s}$	0.0036
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	-0.0115

Constants of Dispersion Formula	
B_1	1.31053414
B_2	0.169376189
B_3	1.10987714
C_1	0.00740877235
C_2	0.0254563489
C_3	107.751087

Constants of Dispersion dn/dT	
D_0	$2.60 \cdot 10^{-6}$
D_1	$9.40 \cdot 10^{-9}$
D_2	$-2.30 \cdot 10^{-11}$
E_0	$4.90 \cdot 10^{-7}$
E_1	$5.96 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.178

Color Code	
λ_{80}/λ_5	34/31
(*= λ_{70}/λ_5)	

Remarks	
suitable for precision molding	

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
$T_{10}^{13.0} [^\circ C]$	494
$T_{10}^{7.6} [^\circ C]$	593
$c_p [J/(g \cdot K)]$	0.760
$\lambda [W/(m \cdot K)]$	1.010
$AT [^\circ C]$	522
$\rho [g/cm^3]$	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

Temperature Coefficients of 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	3.0	3.7	4.2	0.9	1.5	2.0
+20/ +40	2.9	3.6	4.3	1.5	2.2	2.9
+60/ +80	2.9	3.7	4.4	1.8	2.6	3.3