

## 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		
	$\lambda$ [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 $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (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 $\Delta P$ 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	
$\lambda_{80}/\lambda_5$	34/31
(*= $\lambda_{70}/\lambda_5$ )	

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
$\mu$	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