

## P-SK58A 589612.297

$n_d = 1.58913$	$v_d = 61.15$	$n_F - n_C = 0.009634$
$n_e = 1.59143$	$v_e = 60.93$	$n_{F'} - n_{C'} = 0.009707$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.55820
$n_{1970.1}$	1970.1	1.56439
$n_{1529.6}$	1529.6	1.57086
$n_{1060.0}$	1060.0	1.57728
$n_t$	1014.0	1.57799
$n_s$	852.1	1.58086
$n_r$	706.5	1.58449
$n_C$	656.3	1.58618
$n_{C'}$	643.8	1.58665
$n_{632.8}$	632.8	1.58709
$n_D$	589.3	1.58904
$n_d$	587.6	1.58913
$n_e$	546.1	1.59143
$n_F$	486.1	1.59581
$n_{F'}$	480.0	1.59636
$n_g$	435.8	1.60100
$n_h$	404.7	1.60530
$n_i$	365.0	1.61260
$n_{334.1}$	334.1	1.62045
$n_{312.6}$	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	0.546	0.220
2325	0.746	0.480
1970	0.924	0.820
1530	0.984	0.961
1060	0.996	0.991
700	0.995	0.988
660	0.995	0.988
620	0.996	0.989
580	0.997	0.992
546	0.998	0.994
500	0.997	0.993
460	0.996	0.989
436	0.995	0.987
420	0.994	0.986
405	0.994	0.985
400	0.994	0.984
390	0.991	0.977
380	0.986	0.965
370	0.980	0.950
365	0.971	0.930
350	0.924	0.820
334	0.752	0.490
320	0.364	0.080
310	0.067	
300	0.002	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2982
$P_{C,s}$	0.5519
$P_{d,C}$	0.3062
$P_{e,d}$	0.2386
$P_{g,F}$	0.5386
$P_{i,h}$	0.7578
$P'_{s,t}$	0.2959
$P'_{C',s}$	0.5963
$P'_{d,C'}$	0.2554
$P'_{e,d}$	0.2368
$P'_{g,F'}$	0.4784
$P'_{i,h}$	0.7521

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	0.0150
$\Delta P_{C,s}$	0.0065
$\Delta P_{F,e}$	-0.0010
$\Delta P_{g,F}$	-0.0023
$\Delta P_{i,g}$	-0.0080

Constants of Dispersion Formula	
$B_1$	1.3167841
$B_2$	0.171154756
$B_3$	1.12501473
$C_1$	0.00720717498
$C_2$	0.0245659595
$C_3$	102.739728

Constants of Dispersion $dn/dT$	
$D_0$	$3.16 \cdot 10^{-6}$
$D_1$	$1.23 \cdot 10^{-8}$
$D_2$	$-1.08 \cdot 10^{-11}$
$E_0$	$4.41 \cdot 10^{-7}$
$E_1$	$3.20 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.176

Color Code	
$\lambda_{80}/\lambda_5$	35/31
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.8
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.4
$T_g [^\circ C]$	510
$T_{10}^{13.0} [^\circ C]$	510
$T_{10}^{7.6} [^\circ C]$	608
$c_p [J/(g \cdot K)]$	0.770
$\lambda [W/(m \cdot K)]$	1.020
$AT [^\circ C]$	551
$\rho [g/cm^3]$	2.97
$E [10^3 N/mm^2]$	97
$\mu$	0.245
$K [10^{-6} mm^2/N]$	2.12
$HK_{0.1/20}$	662
$HG$	
$Abrasion Aa$	102
$CR$	0
$FR$	0
$SR$	0
$AR$	0
$PR$	0
$SR-J$	4
$WR-J$	2

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	3.2	3.8	4.4	1.0	1.6	2.2
+20/ +40	3.2	3.8	4.4	1.8	2.4	3.0
+60/ +80	3.3	4.0	4.7	2.2	2.9	3.6