

**P-LASF47**  
**806409.454**

$n_d = 1.80610$	$v_d = 40.90$	$n_F - n_C = 0.019709$
$n_e = 1.81078$	$v_e = 40.66$	$n_F' - n_C' = 0.019941$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.76040
$n_{1970.1}$	1970.1	1.76755
$n_{1529.6}$	1529.6	1.77538
$n_{1060.0}$	1060.0	1.78432
$n_t$	1014.0	1.78544
$n_s$	852.1	1.79028
$n_f$	706.5	1.79696
$n_C$	656.3	1.80023
$n_{C'}$	643.8	1.80116
$n_{632.8}$	632.8	1.80203
$n_D$	589.3	1.80593
$n_d$	587.6	1.80610
$n_e$	546.1	1.81078
$n_F$	486.1	1.81994
$n_{F'}$	480.0	1.82110
$n_g$	435.8	1.83112
$n_h$	404.7	1.84064
$n_i$	365.0	1.85739
$n_{334.1}$	334.1	1.87632
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
$B_1$	1.85543101
$B_2$	0.315854649
$B_3$	1.285618390
$C_1$	0.01003282030
$C_2$	0.0387095168
$C_3$	94.5421507

Constants of Formula for $dn/dT$	
$D_0$	7.87E-06
$D_1$	1.09E-08
$D_2$	-1.56E-11
$E_0$	7.58E-07
$E_1$	8.92E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.218

Temperature Coefficients of the Refractive Index						
[°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	6.8	8.3	9.8	4.5	5.9	7.3
+20/+40	6.9	8.6	10.3	5.4	7.0	8.7
+60/+80	7.1	8.9	10.8	5.9	7.7	9.5

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.530	0.200
2325	0.780	0.530
1970	0.950	0.880
1530	0.992	0.981
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.995	0.988
460	0.990	0.975
436	0.985	0.963
420	0.980	0.950
405	0.971	0.930
400	0.967	0.920
390	0.954	0.890
380	0.930	0.830
370	0.880	0.720
365	0.840	0.650
350	0.660	0.350
334	0.250	0.030
320	0.010	
310	0.000	
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	39/33

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.2459
$P_{C,s}$	0.5049
$P_{d,C}$	0.2976
$P_{e,d}$	0.2376
$P_{g,F}$	0.5671
$P_{i,h}$	0.8502
$P'_{s,t}$	0.2430
$P'_{C,s}$	0.5453
$P'_{d,C'}$	0.2478
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5025
$P'_{i,h}$	0.8403

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0117
$\Delta P_{C,s}$	0.0066
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0079
$\Delta P_{i,g}$	-0.0482

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.3
$T_g$ [°C]	530
$T_{10}^{13}$ [°C]	532
$T_{10}^{7.6}$ [°C]	627
$c_p$ [J/(g·K)]	0.550
$\lambda$ [W/(m·K)]	0.850
AT [°C]	580
$\rho$ [g/cm <sup>3</sup> ]	4.54
E [ $10^3$ N/mm <sup>2</sup> ]	120
$\mu$	0.298
K [ $10^{-6}$ mm <sup>2</sup> /N]	2.39
HK <sub>0.1/20</sub>	620
HG	2
Abrasion Aa	70
CR	1
FR	1
SR	51.4
AR	1
PR	2.2
SR-J	3
WR-J	1