

## 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
$n_r$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.525	0.200
2325	0.776	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	0.928	0.830
370	0.877	0.720
365	0.842	0.650
350	0.657	0.350
334	0.250	0.030
320	0.012	
310		
300		
290		
280		
270		
260		
250		

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 Dispersions $\Delta P$ 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

Constants of Dispersion Formula	
$B_1$	1.85543101
$B_2$	0.315854649
$B_3$	1.28561839
$C_1$	0.0100328203
$C_2$	0.0387095168
$C_3$	94.5421507

Constants of Dispersion $dn/dT$	
$D_0$	$7.87 \cdot 10^{-6}$
$D_1$	$1.09 \cdot 10^{-8}$
$D_2$	$-1.56 \cdot 10^{-11}$
$E_0$	$7.58 \cdot 10^{-7}$
$E_1$	$8.92 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.218

Color Code	
$\lambda_{80}/\lambda_5$	39/33
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.3
$T_g [^\circ C]$	530
$T_{10}^{13.0} [^\circ C]$	532
$T_{10}^{7.6} [^\circ C]$	627
$c_p [J/(g \cdot K)]$	0.550
$\lambda [W/(m \cdot K)]$	0.850
$AT [^\circ C]$	580
$\rho [g/cm^3]$	4.54
$E [10^3 N/mm^2]$	120
$\mu$	0.298
$K [10^{-6} mm^2/N]$	2.39
$HK_{0.1/20}$	620
$HG$	2
$Abrasion Aa$	70
$CR$	1
$FR$	1
$SR$	51.4
$AR$	1
$PR$	2.2
$SR-J$	3
$WR-J$	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	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