

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		
	λ [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 τ_i		
λ [nm]	τ_i (10mm)	τ_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 ΔP 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	
λ_{80}/λ_5	39/33
(*= λ_{70}/λ_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
μ	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