

P-LASF51 810409.458

$n_d = 1.81000$	$v_d = 40.93$	$n_F - n_C = 0.019792$
$n_e = 1.81470$	$v_e = 40.68$	$n_{F'} - n_{C'} = 0.020025$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.76437
$n_{1970.1}$	1970.1	1.77145
$n_{1529.6}$	1529.6	1.77923
$n_{1060.0}$	1060.0	1.78815
n_t	1014.0	1.78927
n_s	852.1	1.79413
n_r	706.5	1.80082
n_C	656.3	1.80411
$n_{C'}$	643.8	1.80504
$n_{632.8}$	632.8	1.80591
n_D	589.3	1.80983
n_d	587.6	1.81000
n_e	546.1	1.81470
n_F	486.1	1.82390
$n_{F'}$	480.0	1.82506
n_g	435.8	1.83512
n_h	404.7	1.84467
n_i	365.0	1.86148
$n_{334.1}$	334.1	1.88043
$n_{312.6}$	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	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.992
546	0.997	0.992
500	0.995	0.987
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	
$P_{s,t}$	0.2453
$P_{C,s}$	0.5045
$P_{d,C}$	0.2976
$P_{e,d}$	0.2376
$P_{g,F}$	0.5670
$P_{i,h}$	0.8491
$P'_{s,t}$	0.2425
$P'_{C',s}$	0.5450
$P'_{d,C'}$	0.2477
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5024
$P'_{i,h}$	0.8392

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0107
$\Delta P_{C,s}$	0.0062
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0080
$\Delta P_{i,g}$	-0.0494

Constants of Dispersion Formula	
B_1	1.84568806
B_2	0.3390016
B_3	1.32418921
C_1	0.00988495571
C_2	0.0378097402
C_3	97.841543

Constants of Dispersion dn/dT	
D_0	$7.79 \cdot 10^{-6}$
D_1	$1.10 \cdot 10^{-8}$
D_2	$-2.03 \cdot 10^{-11}$
E_0	$7.86 \cdot 10^{-7}$
E_1	$8.78 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.215

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
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.4
$T_g [^\circ C]$	526
$T_{10}^{13.0} [^\circ C]$	534
$T_{10}^{7.6} [^\circ C]$	629
$c_p [J/(g \cdot K)]$	0.560
$\lambda [W/(m \cdot K)]$	0.870
$AT [^\circ C]$	570
$\rho [g/cm^3]$	4.58
$E [10^3 N/mm^2]$	119
μ	0.299
$K [10^{-6} mm^2/N]$	2.32
$HK_{0.1/20}$	722
HG	
$Abrasion Aa$	66
CR	1
FR	1
SR	51.3
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	9.9	4.4	5.9	7.3
+20/ +40	6.9	8.7	10.4	5.4	7.1	8.8
+60/ +80	7.1	8.9	10.8	5.9	7.7	9.6