

P-LASF50 809405.454

$n_d = 1.80860$	$v_d = 40.46$	$n_F - n_C = 0.019985$
$n_e = 1.81335$	$v_e = 40.22$	$n_{F'} - n_{C'} = 0.020223$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.76261
$n_{1970.1}$	1970.1	1.76975
$n_{1529.6}$	1529.6	1.77759
$n_{1060.0}$	1060.0	1.78657
n_t	1014.0	1.78770
n_s	852.1	1.79259
n_r	706.5	1.79934
n_C	656.3	1.80266
$n_{C'}$	643.8	1.80359
$n_{632.8}$	632.8	1.80447
n_D	589.3	1.80842
n_d	587.6	1.80860
n_e	546.1	1.81335
n_F	486.1	1.82264
$n_{F'}$	480.0	1.82382
n_g	435.8	1.83399
n_h	404.7	1.84367
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	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	0.292	0.030
320	0.032	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2448
$P_{C,s}$	0.5037
$P_{d,C}$	0.2973
$P_{e,d}$	0.2376
$P_{g,F}$	0.5680
$P_{i,h}$	
$P'_{s,t}$	0.2419
$P'_{C',s}$	0.5441
$P'_{d,C'}$	0.2475
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5032
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"

$\Delta P_{C,t}$	0.0116
$\Delta P_{C,s}$	0.0065
$\Delta P_{F,e}$	-0.0020
$\Delta P_{g,F}$	-0.0078
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	1.84910553
B_2	0.329828674
B_3	1.30400901
C_1	0.00999234757
C_2	0.0387437988
C_3	95.8967681

Constants of Dispersion dn/dT	
D_0	$8.04 \cdot 10^{-6}$
D_1	$1.20 \cdot 10^{-8}$
D_2	$-2.19 \cdot 10^{-11}$
E_0	$8.20 \cdot 10^{-7}$
E_1	$9.08 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.209

Color Code	
λ_{80}/λ_5	39/32
(*= λ_{70}/λ_5)	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.9
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.3
$T_g [^\circ C]$	527
$T_{10}^{13.0} [^\circ C]$	526
$T_{10}^{7.6} [^\circ C]$	660
$c_p [J/(g \cdot K)]$	0.560
$\lambda [W/(m \cdot K)]$	0.950
$AT [^\circ C]$	571
$\rho [g/cm^3]$	4.54
$E [10^3 N/mm^2]$	119
μ	0.298
$K [10^{-6} mm^2/N]$	2.41
$HK_{0.1/20}$	655
HG	
Abrasion Aa	62
CR	0
FR	0
SR	0
AR	0
PR	0
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	6.9	8.5	10.0	4.5	6.0	7.5
+20/ +40	7.1	8.9	10.6	5.5	7.3	9.0
+60/ +80	7.3	9.2	11.1	6.1	8.0	9.9