

P-LAK35 693532.385

$n_d = 1.69350$	$v_d = 53.20$	$n_F - n_C = 0.013036$
$n_e = 1.69661$	$v_e = 52.95$	$n_{F'} - n_{C'} = 0.013156$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.65762
$n_{1970.1}$	1970.1	1.66411
$n_{1529.6}$	1529.6	1.67100
$n_{1060.0}$	1060.0	1.67824
n_t	1014.0	1.67909
n_s	852.1	1.68264
n_r	706.5	1.68732
n_C	656.3	1.68955
$n_{C'}$	643.8	1.69018
$n_{632.8}$	632.8	1.69077
n_D	589.3	1.69338
n_d	587.6	1.69350
n_e	546.1	1.69661
n_F	486.1	1.70259
$n_{F'}$	480.0	1.70334
n_g	435.8	1.70974
n_h	404.7	1.71569
n_i	365.0	1.72590
$n_{334.1}$	334.1	1.73698
$n_{312.6}$	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	0.546	0.220
2325	0.758	0.500
1970	0.946	0.870
1530	0.992	0.981
1060	0.999	0.999
700	0.997	0.993
660	0.997	0.992
620	0.997	0.992
580	0.997	0.993
546	0.998	0.994
500	0.997	0.992
460	0.994	0.985
436	0.992	0.980
420	0.991	0.977
405	0.989	0.973
400	0.988	0.970
390	0.984	0.960
380	0.976	0.940
370	0.962	0.907
365	0.950	0.880
350	0.887	0.740
334	0.746	0.480
320	0.536	0.210
310	0.353	0.060
300	0.158	0.005
290	0.026	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2723
$P_{C,s}$	0.5304
$P_{d,C}$	0.3028
$P_{e,d}$	0.2383
$P_{g,F}$	0.5482
$P_{i,h}$	0.7832
$P'_{s,t}$	0.2698
$P'_{C',s}$	0.5732
$P'_{d,C'}$	0.2524
$P'_{e,d}$	0.2361
$P'_{g,F'}$	0.4864
$P'_{i,h}$	0.7761

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

$\Delta P_{C,t}$	0.0053
$\Delta P_{C,s}$	0.0034
$\Delta P_{F,e}$	-0.0015
$\Delta P_{g,F}$	-0.0061
$\Delta P_{i,g}$	-0.0379

Constants of Dispersion Formula	
B_1	1.3932426
B_2	0.418882766
B_3	1.043807
C_1	0.00715959695
C_2	0.0233637446
C_3	88.3284426

Constants of Dispersion dn/dT	
D_0	$-1.90 \cdot 10^{-6}$
D_1	$7.99 \cdot 10^{-9}$
D_2	$7.76 \cdot 10^{-12}$
E_0	$5.64 \cdot 10^{-7}$
E_1	$6.57 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.185

Color Code	
λ_{80}/λ_5	36/29
(*= λ_{70}/λ_5)	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.1
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.7
$T_g [^\circ C]$	508
$T_{10}^{13.0} [^\circ C]$	511
$T_{10}^{7.6} [^\circ C]$	598
$c_p [J/(g \cdot K)]$	0.630
$\lambda [W/(m \cdot K)]$	0.720
$AT [^\circ C]$	544
$\rho [g/cm^3]$	3.85
$E [10^3 N/mm^2]$	101
μ	0.289
$K [10^{-6} mm^2/N]$	1.76
$HK_{0.1/20}$	616
HG	
$Abrasion Aa$	119
CR	2
FR	5
SR	53.3
AR	1.3
PR	4.3
$SR-J$	4
$WR-J$	3

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	1.1	1.9	2.7	-1.2	-0.4	0.3
+20/ +40	0.8	1.7	2.6	-0.7	0.2	1.1
+60/ +80	0.9	1.9	2.9	-0.3	0.7	1.7