

## 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		
	$\lambda$ [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 $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (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 $\Delta P$ 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	
$\lambda_{80}/\lambda_5$	36/29
(*= $\lambda_{70}/\lambda_5$ )	

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
$\mu$	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