

**LASF35**  
**022291.541**

$n_d = 2.02204$	$v_d = 29.06$	$n_F - n_C = 0.035170$
$n_e = 2.03035$	$v_e = 28.84$	$n_{F'} - n_{C'} = 0.035721$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.95946
$n_{1970.1}$	1970.1	1.96639
$n_{1529.6}$	1529.6	1.97472
$n_{1060.0}$	1060.0	1.98624
$n_t$	1014.0	1.98786
$n_s$	852.1	1.99531
$n_r$	706.5	2.00628
$n_C$	656.3	2.01185
$n_{C'}$	643.8	2.01343
$n_{632.8}$	632.8	2.01493
$n_D$	589.3	2.02173
$n_d$	587.6	2.02204
$n_e$	546.1	2.03035
$n_F$	486.1	2.04702
$n_{F'}$	480.0	2.04916
$n_g$	435.8	2.06805
$n_h$	404.7	2.08663
$n_i$	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	

Constants of Dispersion Formula	
$B_1$	2.45505861
$B_2$	0.453006077
$B_3$	2.3851308
$C_1$	0.0135670404
$C_2$	0.054580302
$C_3$	167.904715

Constants of Dispersion $dn/dT$	
$D_0$	$1.43 \cdot 10^{-7}$
$D_1$	$8.71 \cdot 10^{-9}$
$D_2$	$-2.71 \cdot 10^{-11}$
$E_0$	$1.02 \cdot 10^{-6}$
$E_1$	$1.50 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.263

Temperature Coefficients of Refractive Index						
[°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	2.6	5.0	7.8	-0.1	2.2	5.0
+20/ +40	2.7	5.5	9.0	1.0	3.8	7.1
+60/ +80	2.8	5.9	9.7	1.4	4.5	8.3

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.787	0.550
2325	0.877	0.720
1970	0.973	0.934
1530	0.995	0.987
1060	0.998	0.994
700	0.992	0.981
660	0.990	0.974
620	0.987	0.969
580	0.985	0.962
546	0.977	0.943
500	0.948	0.874
460	0.903	0.774
436	0.852	0.670
420	0.787	0.550
405	0.686	0.390
400	0.634	0.320
390	0.504	0.180
380	0.302	0.050
370	0.100	
365	0.030	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	45/37*
(*= $\lambda_{70} / \lambda_5$ )	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2118
$P_{C,s}$	0.4701
$P_{d,C}$	0.2899
$P_{e,d}$	0.2364
$P_{g,F}$	0.5982
$P_{i,h}$	
$P'_{s,t}$	0.2086
$P'_{C',s}$	0.5073
$P'_{d,C'}$	0.2409
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5291
$P'_{i,h}$	

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	-0.0009
$\Delta P_{C,s}$	-0.0006
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0033
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6} / K]$	7.4
$\alpha_{+20/+300^\circ C} [10^{-6} / K]$	8.5
$T_g [^\circ C]$	774
$T_{10}^{13.0} [^\circ C]$	0
$T_{10}^{7.6} [^\circ C]$	0
$c_p [J/(g \cdot K)]$	0.445
$\lambda [W/(m \cdot K)]$	0.920
$\rho [g/cm^3]$	5.41
$E [10^3 N/mm^2]$	132
$\mu$	0.303
$K [10^{-6} mm^2/N]$	0.73
$HK_{0.1/20}$	810
$HG$	1
$CR$	1
$FR$	0
$SR$	1.3
$AR$	1
$PR$	1.3