

## P-SF69 723292.293

$n_d = 1.72250$	$v_d = 29.23$	$n_F - n_C = 0.024718$
$n_e = 1.72883$	$v_e = 29.00$	$n_{F'} - n_{C'} = 0.025116$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.67440
$n_{1970.1}$	1970.1	1.68073
$n_{1529.6}$	1529.6	1.68797
$n_{1060.0}$	1060.0	1.69705
$n_t$	1014.0	1.69826
$n_s$	852.1	1.70367
$n_r$	706.5	1.71144
$n_C$	656.3	1.71535
$n_{C'}$	643.8	1.71647
$n_{632.8}$	632.8	1.71752
$n_D$	589.3	1.72229
$n_d$	587.6	1.72250
$n_e$	546.1	1.72833
$n_F$	486.1	1.74007
$n_{F'}$	480.0	1.74158
$n_g$	435.8	1.75502
$n_h$	404.7	1.76840
$n_i$	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 $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.804	0.580
2325	0.857	0.680
1970	0.954	0.890
1530	0.993	0.983
1060	0.999	0.998
700	0.998	0.994
660	0.997	0.993
620	0.997	0.993
580	0.998	0.994
546	0.997	0.992
500	0.993	0.983
460	0.985	0.964
436	0.976	0.940
420	0.963	0.910
405	0.933	0.840
400	0.915	0.800
390	0.847	0.660
380	0.686	0.390
370	0.364	0.080
365	0.160	0.009
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2188
$P_{C,s}$	0.4727
$P_{d,C}$	0.2893
$P_{e,d}$	0.2360
$P_{g,F}$	0.6050
$P_{i,h}$	
$P'_{s,t}$	0.2153
$P'_{C',s}$	0.5096
$P'_{d,C'}$	0.2403
$P'_{e,d}$	0.2322
$P'_{g,F'}$	0.5352
$P'_{i,h}$	

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	0.0078
$\Delta P_{C,s}$	0.0016
$\Delta P_{F,e}$	0.0017
$\Delta P_{g,F}$	0.0104
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.62594647
$B_2$	0.235927609
$B_3$	1.67434623
$C_1$	0.0121696677
$C_2$	0.0600710405
$C_3$	145.651908

Constants of Dispersion $dn/dT$	
$D_0$	$-2.55 \cdot 10^{-6}$
$D_1$	$5.68 \cdot 10^{-9}$
$D_2$	$-2.85 \cdot 10^{-11}$
$E_0$	$9.50 \cdot 10^{-7}$
$E_1$	$1.54 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.275

Color Code	
$\lambda_{80}/\lambda_5$	41/36
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	11.1
$T_g [^\circ C]$	508
$T_{10}^{13.0} [^\circ C]$	508
$T_{10}^{7.6} [^\circ C]$	602
$c_p [J/(g \cdot K)]$	0.820
$\lambda [W/(m \cdot K)]$	1.120
$AT [^\circ C]$	547
$\rho [g/cm^3]$	2.93
$E [10^3 N/mm^2]$	96
$\mu$	0.251
$K [10^{-6} mm^2/N]$	2.66
$HK_{0.1/20}$	612
$HG$	
$CR$	0
$FR$	0
$SR$	0
$AR$	0
$PR$	0
$SR-J$	1
$WR-J$	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	0.9	2.5	4.6	-1.4	0.1	2.1
+20/ +40	0.6	2.6	5.2	-0.8	1.1	3.6
+60/ +80	0.5	2.8	5.6	-0.6	1.6	4.4