

## P-SF8 689313.290

$n_d = 1.68893$	$v_d = 31.25$	$n_F - n_C = 0.022046$
$n_e = 1.69414$	$v_e = 31.01$	$n_{F'} - n_{C'} = 0.022386$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.64480
$n_{1970.1}$	1970.1	1.65079
$n_{1529.6}$	1529.6	1.65760
$n_{1060.0}$	1060.0	1.66598
$n_t$	1014.0	1.66708
$n_s$	852.1	1.67200
$n_r$	706.5	1.67901
$n_C$	656.3	1.68252
$n_{C'}$	643.8	1.68353
$n_{632.8}$	632.8	1.68447
$n_D$	589.3	1.68874
$n_d$	587.6	1.68893
$n_e$	546.1	1.69414
$n_F$	486.1	1.70457
$n_{F'}$	480.0	1.70591
$n_g$	435.8	1.71778
$n_h$	404.7	1.72950
$n_i$	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	0.727	0.450
2325	0.799	0.570
1970	0.937	0.850
1530	0.991	0.977
1060	0.999	0.997
700	0.995	0.988
660	0.994	0.984
620	0.994	0.984
580	0.995	0.987
546	0.994	0.986
500	0.989	0.972
460	0.980	0.950
436	0.971	0.930
420	0.959	0.900
405	0.937	0.850
400	0.924	0.820
390	0.872	0.710
380	0.746	0.480
370	0.468	0.150
365	0.260	0.040
350	0.001	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2229
$P_{C,s}$	0.4776
$P_{d,C}$	0.2905
$P_{e,d}$	0.2362
$P_{g,F}$	0.5991
$P_{i,h}$	
$P'_{s,t}$	0.2195
$P'_{C',s}$	0.5150
$P'_{d,C'}$	0.2414
$P'_{e,d}$	0.2326
$P'_{g,F'}$	0.5301
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0072
$\Delta P_{C,s}$	0.0018
$\Delta P_{F,e}$	0.0013
$\Delta P_{g,F}$	0.0079
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.55370411
$B_2$	0.206332561
$B_3$	1.39708831
$C_1$	0.011658267
$C_2$	0.0582087757
$C_3$	130.748028

Constants of Dispersion $dn/dT$	
$D_0$	$-4.27 \cdot 10^{-6}$
$D_1$	$8.16 \cdot 10^{-9}$
$D_2$	$-2.00 \cdot 10^{-11}$
$E_0$	$9.02 \cdot 10^{-7}$
$E_1$	$1.22 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.272

Color Code	
$\lambda_{80}/\lambda_5$	40/36
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.4
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	11.1
$T_g [^\circ C]$	524
$T_{10}^{13.0} [^\circ C]$	531
$T_{10}^{7.6} [^\circ C]$	629
$c_p [J/(g \cdot K)]$	0.790
$\lambda [W/(m \cdot K)]$	1.020
$AT [^\circ C]$	580
$\rho [g/cm^3]$	2.90
$E [10^3 N/mm^2]$	86
$\mu$	0.253
$K [10^{-6} mm^2/N]$	2.73
$HK_{0.1/20}$	533
$HG$	
$Abrasion Aa$	200
$CR$	1
$FR$	0
$SR$	1
$AR$	1.2
$PR$	1
$SR-J$	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	-0.2	1.3	3.2	-2.4	-1.0	0.8
+20/ +40	-0.3	1.5	3.7	-1.7	0.0	2.2
+60/ +80	-0.3	1.7	4.1	-1.4	0.5	3.0