

## 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
$n_f$	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	

Constants of Dispersion Formula	
$B_1$	1.55370411
$B_2$	0.206332561
$B_3$	1.397088310
$C_1$	0.01165826700
$C_2$	0.0582087757
$C_3$	130.7480280

Constants of Formula for $dn/dT$	
$D_0$	-4.27E-06
$D_1$	8.16E-09
$D_2$	-2.00E-11
$E_0$	9.02E-07
$E_1$	1.22E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.272

Temperature Coefficients of the 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	-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

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.730	0.450
2325	0.800	0.570
1970	0.940	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	0.940	0.850
400	0.920	0.820
390	0.870	0.710
380	0.750	0.480
370	0.470	0.150
365	0.260	0.040
350	0.000	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	40/36

Remarks
suitable for precision molding

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 Dispersion $\Delta P$ 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
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.4
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	11.1
$T_g$ [°C]	524
$T_{10}^{13}$ [°C]	531
$T_{10}^{7.6}$ [°C]	629
$c_p$ [J/(g·K)]	0.790
$\lambda$ [W/(m·K)]	1.020
AT [°C]	580
$\rho$ [g/cm <sup>3</sup> ]	2.90
E [ $10^3$ N/mm <sup>2</sup> ]	86
$\mu$	0.253
K [ $10^{-6}$ mm <sup>2</sup> /N]	2.73
HK <sub>0.1/20</sub>	533
Abrasion Aa	200
CR	1
FR	0
SR	1
AR	1.2
PR	1
SR-J	1
WR-J	1