

P-SF68
005210.619

$n_d = 2.00520$	$v_d = 21.00$	$n_F - n_C = 0.047867$
$n_e = 2.01643$	$v_e = 20.82$	$n_{F'} - n_{C'} = 0.048826$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.93381
$n_{1970.1}$	1970.1	1.93968
$n_{1529.6}$	1529.6	1.94732
$n_{1060.0}$	1060.0	1.95970
n_t	1014.0	1.96160
n_s	852.1	1.97063
n_r	706.5	1.98449
n_C	656.3	1.99171
$n_{C'}$	643.8	1.99380
$n_{632.8}$	632.8	1.99576
n_D	589.3	2.00479
n_d	587.6	2.00520
n_e	546.1	2.01643
n_F	486.1	2.03958
$n_{F'}$	480.0	2.04262
n_g	435.8	2.07018
n_h	404.7	
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 τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.793	0.560
2325	0.905	0.780
1970	0.976	0.940
1530	0.996	0.990
1060	0.999	0.998
700	0.997	0.993
660	0.996	0.989
620	0.994	0.985
580	0.989	0.973
546	0.976	0.940
500	0.905	0.780
460	0.758	0.500
436	0.574	0.250
420	0.302	0.050
405	0.036	
400	0.007	
390		
380		
370		
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.1885
$P_{C,s}$	0.4406
$P_{d,C}$	0.2817
$P_{e,d}$	0.2346
$P_{g,F}$	0.6392
$P_{i,h}$	
$P'_{s,t}$	0.1848
$P'_{C',s}$	0.4746
$P'_{d,C'}$	0.2336
$P'_{e,d}$	0.2300
$P'_{g,F'}$	0.5644
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"

$\Delta P_{C,t}$	-0.0156
$\Delta P_{C,s}$	-0.0113
$\Delta P_{F,e}$	0.0063
$\Delta P_{g,F}$	0.0308
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	2.3330067
B_2	0.452961396
B_3	1.25172339
C_1	0.0168838419
C_2	0.0716086325
C_3	118.707479

Constants of Dispersion dn/dT	
D_0	$1.55 \cdot 10^{-5}$
D_1	$2.30 \cdot 10^{-8}$
D_2	$-3.46 \cdot 10^{-11}$
E_0	$2.76 \cdot 10^{-6}$
E_1	$2.93 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.297

Color Code	
λ_{80}/λ_5	49/41*
(*= λ_{70}/λ_5)	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.4
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.7
$T_g [^\circ C]$	428
$T_{10}^{13.0} [^\circ C]$	430
$T_{10}^{7.6} [^\circ C]$	504
$c_p [J/(g \cdot K)]$	0.370
$\lambda [W/(m \cdot K)]$	0.650
$AT [^\circ C]$	468
$\rho [g/cm^3]$	6.19
$E [10^3 N/mm^2]$	79
μ	0.275
$K [10^{-6} mm^2/N]$	1.61
$HK_{0.1/20}$	404
HG	
$Abrasion Aa$	298
CR	1
FR	5
SR	53.3
AR	2.3
PR	2.3
$SR-J$	4
$WR-J$	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	13.7	21.5	32.3	11.1	18.8	29.5
+20/ +40	15.2	24.1	36.5	13.5	22.3	34.6
+60/ +80	16.2	25.8	39.1	15.4	25.3	39.2