

SF6G05 809253.520

$n_d = 1.80906$	$v_d = 25.28$	$n_F - n_C = 0.032015$
$n_e = 1.81661$	$v_e = 25.08$	$n_{F'} - n_{C'} = 0.032570$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.75661
$n_{1970.1}$	1970.1	1.76163
$n_{1529.6}$	1529.6	1.76797
$n_{1060.0}$	1060.0	1.77741
n_t	1014.0	1.77879
n_s	852.1	1.78524
n_r	706.5	1.79491
n_C	656.3	1.79988
$n_{C'}$	643.8	1.80131
$n_{632.8}$	632.8	1.80265
n_D	589.3	1.80878
n_d	587.6	1.80906
n_e	546.1	1.81661
n_F	486.1	1.83190
$n_{F'}$	480.0	1.83387
n_g	435.8	
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	

Constants of Dispersion Formula	
B_1	1.62113942
B_2	0.506586092
B_3	10.4032298
C_1	0.0113478992
C_2	0.0535840223
C_3	1118.83658

Constants of Dispersion dn/dT	
D_0	$6.90 \cdot 10^{-6}$
D_1	$1.76 \cdot 10^{-8}$
D_2	$-3.17 \cdot 10^{-11}$
E_0	$1.89 \cdot 10^{-6}$
E_1	$1.50 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.256

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	6.4	10.3		4.0	7.8	
+20/ +40	7.0	11.4		5.5	9.8	
+60/ +80	7.5	12.1		6.3	10.9	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.847	0.660
2325	0.877	0.721
1970	0.965	0.915
1530	0.995	0.987
1060	0.998	0.994
700	0.985	0.962
660	0.980	0.950
620	0.972	0.931
580	0.958	0.898
546	0.917	0.805
500	0.642	0.330
460	0.090	0.080
436		
420		
405		
400		
390		
380		
370		
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80} / λ_5	52/46*
(*= λ_{70} / λ_5)	

Remarks
radiation resistant glass

Relative Partial Dispersion	
$P_{s,t}$	0.2013
$P_{C,s}$	0.4574
$P_{d,C}$	0.2866
$P_{e,d}$	0.2358
$P_{g,F}$	
$P_{i,h}$	
$P'_{s,t}$	0.1979
$P'_{C',s}$	0.4933
$P'_{d,C'}$	0.2380
$P'_{e,d}$	0.2318
$P'_{g,F'}$	
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0062
$\Delta P_{C,s}$	-0.0044
$\Delta P_{F,e}$	0.0025
$\Delta P_{g,F}$	
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6} / K]$	7.8
$\alpha_{+20/+300^\circ C} [10^{-6} / K]$	
$T_g [^\circ C]$	427
$T_{10}^{13.0} [^\circ C]$	0
$T_{10}^{7.6} [^\circ C]$	529
$c_p [J/(g \cdot K)]$	
$\lambda [W/(m \cdot K)]$	
$\rho [g/cm^3]$	5.20
$E [10^3 N/mm^2]$	
μ	
$K [10^{-6} mm^2/N]$	
$HK_{0.1/20}$	360
HG	
CR	4
FR	3
SR	51.3
AR	2.3
PR	3.3