Оптическое стекло
BAF, BALF, SK
Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
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Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
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Иркутск (395)279-98-46
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Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
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Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
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Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
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Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
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Тамбов (4752)50-40-97
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Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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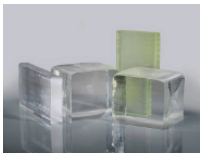
Datasheet



N-BAF4
606437.289

n_d = 1.60568	ν_d = 43.72	$n_F - n_C$ = 0.013853
n_e = 1.60897	ν_e = 43.43	$n_{F'} - n_{C'}$ = 0.014021

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.57092
$n_{1970.1}$	1970.1	1.57685
$n_{1529.6}$	1529.6	1.58323
$n_{1060.0}$	1060.0	1.59016
n_t	1014.0	1.59099
n_s	852.1	1.59452
n_r	706.5	1.59926
n_C	656.3	1.60157
$n_{C'}$	643.8	1.60222
$n_{632.8}$	632.8	1.60282
n_D	589.3	1.60556
n_d	587.6	1.60568
n_e	546.1	1.60897
n_F	486.1	1.61542
$n_{F'}$	480.0	1.61624
n_g	435.8	1.62336
n_h	404.7	1.63022
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	1.420563280
B_2	0.102721269
B_3	1.143809760
C_1	0.009420154
C_2	0.0531087291
C_3	110.27885600

Constants of Formula for dn/dT

D_0	9.39E-07
D_1	1.24E-08
D_2	-9.00E-12
E_0	6.17E-07
E_1	8.42E-10
λ_{TK} [µm]	0.242

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.710	0.420
2325	0.840	0.640
1970	0.954	0.890
1530	0.991	0.977
1060	0.998	0.994
700	0.998	0.994
660	0.996	0.991
620	0.996	0.990
580	0.997	0.992
546	0.997	0.992
500	0.994	0.985
460	0.988	0.971
436	0.983	0.959
420	0.976	0.940
405	0.959	0.900
400	0.950	0.870
390	0.900	0.770
380	0.800	0.580
370	0.600	0.280
365	0.440	0.130
350	0.010	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	39/35

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2545
$P_{C,s}$	0.5089
$P_{d,C}$	0.2972
$P_{e,d}$	0.2372
$P_{g,F}$	0.5733
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2515
$P'_{C',s}$	0.5491
$P'_{d,C'}$	0.2473
$P'_{e,d}$	0.2344
$P'_{g,F'}$	0.5081
$P'_{i,h}$	

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0110
$\Delta P_{C,s}$	0.0041
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0030
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1
AR	1.2
PR	1.3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	7.2
$\alpha_{+20/+300°C}$ [10^{-6}/K]	8.3
T_g [°C]	580
$T_{10^{13}}$ [°C]	580
$T_{10^{7.6}}$ [°C]	709
c_p [J/(g*K)]	0.740
λ [W/(m•K)]	1.020
ρ [g/cm³]	2.89
E [10^3 N/mm²]	85
µ	0.231
K [10^{-6} mm²/N]	2.58
$HK_{0.1/20}$	610
HG	3

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	2.2	3.1	4.1	0.1	0.9	1.9
+20/+40	2.2	3.3	4.5	0.9	1.9	3.0
+60/+80	2.4	3.6	4.9	1.3	2.5	3.8

Datasheet

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N-BAF10
670471.375

n_d = 1.67003	ν_d = 47.11	$n_F - n_C$ = 0.014222
n_e = 1.67341	ν_e = 46.83	$n_{F'} - n_{C'}$ = 0.014380

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.63524
$n_{1970.1}$	1970.1	1.64094
$n_{1529.6}$	1529.6	1.64714
$n_{1060.0}$	1060.0	1.65404
n_t	1014.0	1.65488
n_s	852.1	1.65849
n_r	706.5	1.66339
n_C	656.3	1.66578
$n_{C'}$	643.8	1.66645
$n_{632.8}$	632.8	1.66708
n_D	589.3	1.66990
n_d	587.6	1.67003
n_e	546.1	1.67341
n_F	486.1	1.68000
$n_{F'}$	480.0	1.68083
n_g	435.8	1.68801
n_h	404.7	1.69480
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	1.585149500
B_2	0.143559385
B_3	1.085212690
C_1	0.009266813
C_2	0.0424489805
C_3	105.61357300

Constants of Formula for dn/dT

D_0	3.79E-06
D_1	1.28E-08
D_2	-1.42E-11
E_0	5.84E-07
E_1	7.60E-10
λ_{TK} [µm]	0.220

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.730	0.450
2325	0.860	0.680
1970	0.967	0.920
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.994
660	0.996	0.990
620	0.996	0.991
580	0.996	0.990
546	0.996	0.990
500	0.992	0.981
460	0.987	0.967
436	0.981	0.954
420	0.976	0.940
405	0.959	0.900
400	0.950	0.880
390	0.920	0.800
380	0.850	0.660
370	0.720	0.440
365	0.630	0.310
350	0.180	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	39/35

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2539
$P_{C,s}$	0.5122
$P_{d,C}$	0.2989
$P_{e,d}$	0.2377
$P_{g,F}$	0.5629
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2511
$P'_{C',s}$	0.5533
$P'_{d,C'}$	0.2489
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4990
$P'_{i,h}$	

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0024
$\Delta P_{C,s}$	-0.0005
$\Delta P_{F,e}$	-0.0003
$\Delta P_{g,F}$	-0.0016
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	4.3
AR	1.3
PR	1

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.2
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.0
T_g [°C]	660
$T_{10^{13}}$ [°C]	652
$T_{10^{7.6}}$ [°C]	790
c_p [J/(g*K)]	0.560
λ [W/(m•K)]	0.780
ρ [g/cm³]	3.75
E [10^3 N/mm²]	89
µ	0.271
K [10^{-6} mm²/N]	2.37
$HK_{0.1/20}$	620
HG	4

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.7	4.7	5.6	1.5	2.4	3.3
+20/+40	3.8	4.9	6.0	2.4	3.5	4.5
+60/+80	4.0	5.2	6.4	2.9	4.1	5.3

Datasheet

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N-BAF51
652450.333

n_d = 1.65224	ν_d = 44.96	$n_F - n_C$ = 0.014507
n_e = 1.65569	ν_e = 44.67	$n_{F'} - n_{C'}$ = 0.014677

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.61873
$n_{1970.1}$	1970.1	1.62390
$n_{1529.6}$	1529.6	1.62961
$n_{1060.0}$	1060.0	1.63619
n_t	1014.0	1.63701
n_s	852.1	1.64059
n_r	706.5	1.64551
n_C	656.3	1.64792
$n_{C'}$	643.8	1.64860
$n_{632.8}$	632.8	1.64924
n_D	589.3	1.65211
n_d	587.6	1.65224
n_e	546.1	1.65569
n_F	486.1	1.66243
$n_{F'}$	480.0	1.66328
n_g	435.8	1.67065
n_h	404.7	1.67766
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	1.515036230
B_2	0.153621958
B_3	1.154279090
C_1	0.009427347
C_2	0.0430826500
C_3	124.88986800

Constants of Formula for dn/dT

D_0	-2.84E-07
D_1	1.04E-08
D_2	-1.80E-11
E_0	7.01E-07
E_1	8.47E-10
λ_{TK} [µm]	0.219

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.750	0.480
2325	0.830	0.630
1970	0.950	0.870
1530	0.992	0.980
1060	0.997	0.993
700	0.997	0.993
660	0.996	0.990
620	0.996	0.990
580	0.997	0.992
546	0.996	0.991
500	0.994	0.985
460	0.988	0.970
436	0.982	0.956
420	0.976	0.940
405	0.963	0.910
400	0.954	0.890
390	0.920	0.820
380	0.860	0.690
370	0.740	0.470
365	0.640	0.330
350	0.210	0.020
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	39/34

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2463
$P_{C,s}$	0.5055
$P_{d,C}$	0.2977
$P_{e,d}$	0.2376
$P_{g,F}$	0.5670
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2435
$P'_{C',s}$	0.5460
$P'_{d,C'}$	0.2479
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5024
$P'_{i,h}$	

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0064
$\Delta P_{C,s}$	-0.0022
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0012
$\Delta P_{i,g}$	

Chemical Properties

CR	2
FR	0
SR	5.4
AR	1.3
PR	1

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	8.4
$\alpha_{+20/+300°C}$ [10^{-6}/K]	9.5
T_g [°C]	569
$T_{10^{13}}$ [°C]	574
$T_{10^{7.6}}$ [°C]	712
c_p [J/(g*K)]	0.840
λ [W/(m•K)]	0.670
ρ [g/cm³]	3.33
E [10^3 N/mm²]	91
µ	0.262
K [10^{-6} mm²/N]	2.22
$HK_{0.1/20}$	560
HG	5

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	1.7	2.8	3.8	-0.5	0.5	1.5
+20/+40	1.7	2.9	4.1	0.3	1.5	2.7
+60/+80	1.8	3.1	4.4	0.7	2.0	3.3

Datasheet

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N-BAF52
609466.305

n_d = 1.60863	ν_d = 46.60	$n_F - n_C$ = 0.013061
n_e = 1.61173	ν_e = 46.30	$n_{F'} - n_{C'}$ = 0.013211

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.57475
$n_{1970.1}$	1970.1	1.58067
$n_{1529.6}$	1529.6	1.58702
$n_{1060.0}$	1060.0	1.59381
n_t	1014.0	1.59461
n_s	852.1	1.59801
n_r	706.5	1.60254
n_C	656.3	1.60473
$n_{C'}$	643.8	1.60535
$n_{632.8}$	632.8	1.60593
n_D	589.3	1.60852
n_d	587.6	1.60863
n_e	546.1	1.61173
n_F	486.1	1.61779
$n_{F'}$	480.0	1.61856
n_g	435.8	1.62521
n_h	404.7	1.63157
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	1.439034330
B_2	0.096704605
B_3	1.098758180
C_1	0.009078001
C_2	0.0508212080
C_3	105.69185600

Constants of Formula for dn/dT

D_0	1.15E-06
D_1	1.27E-08
D_2	-5.08E-12
E_0	5.64E-07
E_1	6.38E-10
λ_{TK} [µm]	0.238

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.390
2325	0.830	0.630
1970	0.954	0.890
1530	0.990	0.975
1060	0.998	0.994
700	0.997	0.993
660	0.996	0.990
620	0.996	0.989
580	0.996	0.990
546	0.996	0.989
500	0.992	0.980
460	0.987	0.967
436	0.981	0.954
420	0.975	0.940
405	0.959	0.900
400	0.950	0.880
390	0.910	0.800
380	0.840	0.650
370	0.670	0.370
365	0.540	0.210
350	0.050	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	39/35

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2600
$P_{C,s}$	0.5147
$P_{d,C}$	0.2985
$P_{e,d}$	0.2374
$P_{g,F}$	0.5678
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2571
$P'_{C',s}$	0.5555
$P'_{d,C'}$	0.2485
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5035
$P'_{i,h}$	

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0087
$\Delta P_{C,s}$	0.0031
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0024
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1
AR	1.3
PR	1

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.9
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.8
T_g [°C]	594
$T_{10^{13}}$ [°C]	596
$T_{10^{7.6}}$ [°C]	716
c_p [J/(g*K)]	0.680
λ [W/(m•K)]	0.960
ρ [g/cm³]	3.05
E [10^3 N/mm²]	86
µ	0.237
K [10^{-6} mm²/N]	2.42
$HK_{0.1/20}$	600
HG	3

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	2.3	3.1	4.0	0.2	0.9	1.8
+20/+40	2.3	3.3	4.3	0.9	1.9	2.9
+60/+80	2.5	3.6	4.7	1.4	2.5	3.6

Datasheet

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N-BALF4
580539.311

n_d = 1.57956	ν_d = 53.87	$n_F - n_C$ = 0.010759
n_e = 1.58212	ν_e = 53.59	$n_{F'} - n_{C'}$ = 0.010863

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.55068
$n_{1970.1}$	1970.1	1.55577
$n_{1529.6}$	1529.6	1.56124
$n_{1060.0}$	1060.0	1.56707
n_t	1014.0	1.56776
n_s	852.1	1.57065
n_r	706.5	1.57447
n_C	656.3	1.57631
$n_{C'}$	643.8	1.57683
$n_{632.8}$	632.8	1.57731
n_D	589.3	1.57946
n_d	587.6	1.57956
n_e	546.1	1.58212
n_F	486.1	1.58707
$n_{F'}$	480.0	1.58769
n_g	435.8	1.59301
n_h	404.7	1.59799
n_i	365.0	1.60658
$n_{334.1}$	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	1.310041280
B_2	0.142038259
B_3	0.964929351
C_1	0.007965965
C_2	0.0330672072
C_3	109.19732000

Constants of Formula for dn/dT

D_0	5.33E-06
D_1	1.47E-08
D_2	-1.58E-11
E_0	5.75E-07
E_1	6.58E-10
λ_{TK} [µm]	0.195

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.800	0.580
2325	0.890	0.740
1970	0.967	0.920
1530	0.994	0.984
1060	0.997	0.993
700	0.999	0.997
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.995
500	0.997	0.993
460	0.994	0.986
436	0.993	0.983
420	0.992	0.981
405	0.988	0.970
400	0.985	0.964
390	0.976	0.940
380	0.959	0.900
370	0.920	0.820
365	0.890	0.750
350	0.680	0.380
334	0.160	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	37/33

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2687
$P_{C,s}$	0.5265
$P_{d,C}$	0.3019
$P_{e,d}$	0.2382
$P_{g,F}$	0.5520
$P_{i,h}$	0.7986

Relative Partial Dispersion P'

$P'_{s,t}$	0.2661
$P'_{C',s}$	0.5689
$P'_{d,C'}$	0.2515
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4897
$P'_{i,h}$	0.7909

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0053
$\Delta P_{C,s}$	-0.0019
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0012
$\Delta P_{i,g}$	-0.0114

Chemical Properties

CR	1
FR	0
SR	1
AR	1
PR	1

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.5
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.4
T_g [°C]	578
$T_{10^{13}}$ [°C]	584
$T_{10^{7.6}}$ [°C]	661
c_p [J/(g*K)]	0.690
λ [W/(m•K)]	0.850
ρ [g/cm³]	3.11
E [10^3 N/mm²]	77
µ	0.245
K [10^{-6} mm²/N]	3.01
$HK_{0.1/20}$	540
HG	2

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	4.1	4.9	5.6	2.0	2.7	3.4
+20/+40	4.2	5.1	6.0	2.9	3.7	4.6
+60/+80	4.4	5.4	6.4	3.4	4.3	5.3

Datasheet

SCHOTT
glass made of ideas

N-BALF5
547536.261

n_d = 1.54739	ν_d = 53.63	$n_F - n_C$ = 0.010207
n_e = 1.54982	ν_e = 53.36	$n_{F'} - n_{C'}$ = 0.010303

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	
$n_{1970.1}$	1970.1	
$n_{1529.6}$	1529.6	
$n_{1060.0}$	1060.0	1.53529
n_t	1014.0	1.53598
n_s	852.1	1.53885
n_r	706.5	1.54255
n_C	656.3	1.54430
$n_{C'}$	643.8	1.54479
$n_{632.8}$	632.8	1.54525
n_D	589.3	1.54730
n_d	587.6	1.54739
n_e	546.1	1.54982
n_F	486.1	1.55451
$n_{F'}$	480.0	1.55510
n_g	435.8	1.56016
n_h	404.7	1.56491
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	1.283859650
B_2	0.071930094
B_3	1.050489270
C_1	0.008258160
C_2	0.0441920027
C_3	107.09732400

Constants of Formula for dn/dT

D_0	1.14E-06
D_1	1.29E-08
D_2	-1.46E-11
E_0	5.02E-07
E_1	5.87E-10
λ_{TK} [µm]	0.219

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.620	0.300
2325	0.760	0.500
1970	0.920	0.810
1530	0.989	0.973
1060	0.996	0.991
700	0.998	0.995
660	0.997	0.993
620	0.997	0.993
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.995	0.988
436	0.994	0.984
420	0.991	0.978
405	0.986	0.965
400	0.983	0.957
390	0.967	0.920
380	0.940	0.850
370	0.870	0.710
365	0.820	0.600
350	0.440	0.130
334	0.010	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	37/34

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2810
$P_{C,s}$	0.5345
$P_{d,C}$	0.3025
$P_{e,d}$	0.2380
$P_{g,F}$	0.5532
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2783
$P'_{C',s}$	0.5771
$P'_{d,C'}$	0.2520
$P'_{e,d}$	0.2357
$P'_{g,F'}$	0.4909
$P'_{i,h}$	

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0161
$\Delta P_{C,s}$	0.0066
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1
AR	2
PR	1

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	7.3
$\alpha_{+20/+300°C}$ [10^{-6}/K]	8.4
T_g [°C]	558
$T_{10^{13}}$ [°C]	559
$T_{10^{7.6}}$ [°C]	711
c_p [J/(g*K)]	0.810
λ [W/(m•K)]	1.050
ρ [g/cm³]	2.61
E [10^3 N/mm²]	81
µ	0.214
K [10^{-6} mm²/N]	2.76
$HK_{0.1/20}$	600
HG	2

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	2.1	2.8	3.5	0.1	0.7	1.3
+20/+40	2.1	2.9	3.7	0.8	1.6	2.3
+60/+80	2.3	3.1	3.9	1.3	2.1	2.9

Datasheet

SCHOTT
glass made of ideas

N-SK2
607567.355

n_d = 1.60738	ν_d = 56.65	$n_F - n_C$ = 0.010722
n_e = 1.60994	ν_e = 56.37	$n_{F'} - n_{C'}$ = 0.010821

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.57881
$n_{1970.1}$	1970.1	1.58378
$n_{1529.6}$	1529.6	1.58914
$n_{1060.0}$	1060.0	1.59490
n_t	1014.0	1.59558
n_s	852.1	1.59847
n_r	706.5	1.60230
n_C	656.3	1.60414
$n_{C'}$	643.8	1.60465
$n_{632.8}$	632.8	1.60513
n_D	589.3	1.60729
n_d	587.6	1.60738
n_e	546.1	1.60994
n_F	486.1	1.61486
$n_{F'}$	480.0	1.61547
n_g	435.8	1.62073
n_h	404.7	1.62562
n_i	365.0	1.63398
$n_{334.1}$	334.1	1.64304
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.281890120
B_2	0.257738258
B_3	0.968186040
C_1	0.007271916
C_2	0.0242823527
C_3	110.37777300

Constants of Formula for dn/dT

D_0	3.80E-06
D_1	1.41E-08
D_2	2.28E-11
E_0	6.44E-07
E_1	8.03E-11
λ_{TK} [µm]	0.108

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.820	0.600
2325	0.900	0.760
1970	0.971	0.930
1530	0.995	0.988
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.998	0.994
580	0.998	0.995
546	0.998	0.995
500	0.996	0.990
460	0.993	0.983
436	0.993	0.982
420	0.994	0.984
405	0.994	0.985
400	0.994	0.984
390	0.992	0.979
380	0.988	0.970
370	0.976	0.940
365	0.967	0.920
350	0.910	0.780
334	0.750	0.490
320	0.500	0.180
310	0.280	0.040
300	0.100	
290	0.020	
280		
270		
260		
250		

Color Code

λ80 / λ5	33/28

Remarks

step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.2690
$P_{C,s}$	0.5285
$P_{d,C}$	0.3027
$P_{e,d}$	0.2384
$P_{g,F}$	0.5477
$P_{i,h}$	0.7802

Relative Partial Dispersion P'

$P'_{s,t}$	0.2666
$P'_{C',s}$	0.5713
$P'_{d,C'}$	0.2523
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4860
$P'_{i,h}$	0.7730

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0162
$\Delta P_{C,s}$	-0.0064
$\Delta P_{F,e}$	0.0003
$\Delta P_{g,F}$	-0.0008
$\Delta P_{i,g}$	-0.0130

Chemical Properties

CR	2
FR	0
SR	2.2
AR	1
PR	2.3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.0
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.1
T_g [°C]	659
$T_{10^{13}}$ [°C]	659
$T_{10^{7.6}}$ [°C]	823
c_p [J/(g*K)]	0.595
λ [W/(m•K)]	0.776
ρ [g/cm³]	3.55
E [10^3 N/mm²]	78
µ	0.263
K [10^{-6} mm²/N]	2.31
$HK_{0.1/20}$	550
HG	2

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.7	4.6	5.3	1.5	2.4	3.1
+20/+40	3.6	4.5	5.3	2.3	3.1	3.9
+60/+80	4.0	4.9	5.7	2.9	3.8	4.5

Datasheet

SCHOTT
glass made of ideas

N-SK2HT
607567.355

n_d = 1.60738	ν_d = 56.65	$n_F - n_C$ = 0.010722
n_e = 1.60994	ν_e = 56.37	$n_{F'} - n_{C'}$ = 0.010821

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.57881
$n_{1970.1}$	1970.1	1.58378
$n_{1529.6}$	1529.6	1.58914
$n_{1060.0}$	1060.0	1.59490
n_t	1014.0	1.59558
n_s	852.1	1.59847
n_r	706.5	1.60230
n_C	656.3	1.60414
$n_{C'}$	643.8	1.60465
$n_{632.8}$	632.8	1.60513
n_D	589.3	1.60729
n_d	587.6	1.60738
n_e	546.1	1.60994
n_F	486.1	1.61486
$n_{F'}$	480.0	1.61547
n_g	435.8	1.62073
n_h	404.7	1.62562
n_i	365.0	1.63398
$n_{334.1}$	334.1	1.64304
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.281890120
B_2	0.257738258
B_3	0.968186040
C_1	0.007271916
C_2	0.0242823527
C_3	110.37777300

Constants of Formula for dn/dT

D_0	3.80E-06
D_1	1.41E-08
D_2	2.28E-11
E_0	6.44E-07
E_1	8.03E-11
λ_{TK} [µm]	0.108

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.810	0.590
2325	0.890	0.750
1970	0.976	0.940
1530	0.995	0.987
1060	0.998	0.996
700	0.999	0.997
660	0.998	0.996
620	0.998	0.996
580	0.999	0.997
546	0.999	0.997
500	0.998	0.995
460	0.997	0.992
436	0.996	0.991
420	0.997	0.992
405	0.996	0.991
400	0.996	0.990
390	0.994	0.986
380	0.992	0.980
370	0.987	0.968
365	0.983	0.957
350	0.955	0.890
334	0.870	0.700
320	0.650	0.350
310	0.390	0.090
300	0.130	0.000
290	0.010	
280	0.000	
270		
260		
250		

Color Code

λ80 / λ5	33/28

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2690
$P_{C,s}$	0.5285
$P_{d,C}$	0.3027
$P_{e,d}$	0.2384
$P_{g,F}$	0.5477
$P_{i,h}$	0.7802

Relative Partial Dispersion P'

$P'_{s,t}$	0.2666
$P'_{C',s}$	0.5713
$P'_{d,C'}$	0.2523
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4860
$P'_{i,h}$	0.7730

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0162
$\Delta P_{C,s}$	-0.0064
$\Delta P_{F,e}$	0.0003
$\Delta P_{g,F}$	-0.0008
$\Delta P_{i,g}$	-0.0130

Chemical Properties

CR	2
FR	0
SR	2.2
AR	1
PR	2.3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.0
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.1
T_g [°C]	659
$T_{10^{13}}$ [°C]	659
$T_{10^{7.6}}$ [°C]	823
c_p [J/(g*K)]	0.595
λ [W/(m•K)]	0.776
ρ [g/cm³]	3.55
E [10^3 N/mm²]	78
µ	0.263
K [10^{-6} mm²/N]	2.31
$HK_{0.1/20}$	550
HG	2

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.7	4.6	5.3	1.5	2.4	3.1
+20/+40	3.6	4.5	5.3	2.3	3.1	3.9
+60/+80	4.0	4.9	5.7	2.9	3.8	4.5

Datasheet

SCHOTT
glass made of ideas

N-SK4
613586.354

n_d = 1.61272	ν_d = 58.63	$n_F - n_C$ = 0.010450
n_e = 1.61521	ν_e = 58.37	$n_{F'} - n_{C'}$ = 0.010541

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.58282
$n_{1970.1}$	1970.1	1.58835
$n_{1529.6}$	1529.6	1.59422
$n_{1060.0}$	1060.0	1.60032
n_t	1014.0	1.60102
n_s	852.1	1.60393
n_r	706.5	1.60774
n_C	656.3	1.60954
$n_{C'}$	643.8	1.61005
$n_{632.8}$	632.8	1.61052
n_D	589.3	1.61262
n_d	587.6	1.61272
n_e	546.1	1.61521
n_F	486.1	1.61999
$n_{F'}$	480.0	1.62059
n_g	435.8	1.62568
n_h	404.7	1.63042
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	1.329937410
B_2	0.228542996
B_3	0.988465211
C_1	0.007168741
C_2	0.0246455892
C_3	100.88636400

Constants of Formula for dn/dT

D_0	7.96E-07
D_1	1.30E-08
D_2	-1.31E-11
E_0	4.36E-07
E_1	6.01E-10
λ_{TK} [µm]	0.179

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.390
2325	0.830	0.620
1970	0.959	0.900
1530	0.991	0.977
1060	0.997	0.993
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.994	0.985
436	0.993	0.983
420	0.993	0.983
405	0.992	0.979
400	0.990	0.975
390	0.984	0.960
380	0.971	0.930
370	0.950	0.870
365	0.930	0.830
350	0.820	0.610
334	0.530	0.200
320	0.100	
310		
300		
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	36/32

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2792
$P_{C,s}$	0.5366
$P_{d,C}$	0.3039
$P_{e,d}$	0.2384
$P_{g,F}$	0.5448
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2768
$P'_{C',s}$	0.5799
$P'_{d,C'}$	0.2533
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4835
$P'_{i,h}$	

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0073
$\Delta P_{C,s}$	-0.0030
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	

Chemical Properties

CR	3
FR	1
SR	51.2
AR	2
PR	2

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.5
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.4
T_g [°C]	658
$T_{10^{13}}$ [°C]	646
$T_{10^{7.6}}$ [°C]	769
c_p [J/(g*K)]	0.570
λ [W/(m•K)]	0.830
ρ [g/cm³]	3.54
E [10^3 N/mm²]	84
µ	0.261
K [10^{-6} mm²/N]	1.92
$HK_{0.1/20}$	580
HG	3

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	2.0	2.6	3.1	-0.1	0.4	0.9
+20/+40	2.1	2.8	3.4	0.7	1.4	2.0
+60/+80	2.3	3.0	3.7	1.2	1.9	2.6

Datasheet

SCHOTT
glass made of ideas

N-SK5
589613.330

n_d = 1.58913	ν_d = 61.27	$n_F - n_C$ = 0.009616
n_e = 1.59142	ν_e = 61.02	$n_{F'} - n_{C'}$ = 0.009692

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.55966
$n_{1970.1}$	1970.1	1.56539
$n_{1529.6}$	1529.6	1.57140
$n_{1060.0}$	1060.0	1.57747
n_t	1014.0	1.57815
n_s	852.1	1.58094
n_r	706.5	1.58451
n_C	656.3	1.58619
$n_{C'}$	643.8	1.58666
$n_{632.8}$	632.8	1.58710
n_D	589.3	1.58904
n_d	587.6	1.58913
n_e	546.1	1.59142
n_F	486.1	1.59581
$n_{F'}$	480.0	1.59635
n_g	435.8	1.60100
n_h	404.7	1.60530
n_i	365.0	1.61260
$n_{334.1}$	334.1	1.62043
$n_{312.6}$	312.6	1.62759
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.991463823
B_2	0.495982121
B_3	0.987393925
C_1	0.005227305
C_2	0.0172733646
C_3	98.35945790

Constants of Formula for dn/dT

D_0	3.50E-06
D_1	1.22E-08
D_2	6.38E-11
E_0	2.46E-07
E_1	-3.34E-11
λ_{TK} [µm]	0.278

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.680	0.380
2325	0.840	0.640
1970	0.963	0.910
1530	0.992	0.980
1060	0.999	0.997
700	0.998	0.995
660	0.998	0.994
620	0.997	0.993
580	0.998	0.995
546	0.998	0.996
500	0.998	0.994
460	0.996	0.989
436	0.995	0.987
420	0.994	0.986
405	0.993	0.983
400	0.992	0.981
390	0.988	0.971
380	0.984	0.960
370	0.976	0.940
365	0.971	0.930
350	0.920	0.820
334	0.800	0.580
320	0.590	0.270
310	0.400	0.100
300	0.210	0.020
290	0.090	
280	0.030	
270		
260		
250		

Color Code

λ80 / λ5	34/29

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2904
$P_{C,s}$	0.5460
$P_{d,C}$	0.3055
$P_{e,d}$	0.2386
$P_{g,F}$	0.5400
$P_{i,h}$	0.7591

Relative Partial Dispersion P'

$P'_{s,t}$	0.2881
$P'_{C',s}$	0.5901
$P'_{d,C'}$	0.2547
$P'_{e,d}$	0.2367
$P'_{g,F'}$	0.4796
$P'_{i,h}$	0.7531

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0008
$\Delta P_{C,s}$	0.0003
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0045

Chemical Properties

CR	3
FR	1
SR	4.4
AR	2
PR	1.3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	5.5
$\alpha_{+20/+300°C}$ [10^{-6}/K]	6.5
T_g [°C]	660
$T_{10^{13}}$ [°C]	657
$T_{10^{7.6}}$ [°C]	791
c_p [J/(g*K)]	0.560
λ [W/(m•K)]	0.990
ρ [g/cm³]	3.30
E [10^3 N/mm²]	84
µ	0.256
K [10^{-6} mm²/N]	2.16
$HK_{0.1/20}$	590
HG	3

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.5	4.0	4.6	1.4	1.9	2.4
+20/+40	3.2	3.7	4.3	1.9	2.3	2.9
+60/+80	3.6	4.1	4.7	2.6	3.0	3.6

Datasheet

SCHOTT
glass made of ideas

N-SK5HTi
589613.330

n_d = 1.58913	ν_d = 61.27	$n_F - n_C$ = 0.009616
n_e = 1.59142	ν_e = 61.02	$n_{F'} - n_{C'}$ = 0.009692

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.55966
$n_{1970.1}$	1970.1	1.56539
$n_{1529.6}$	1529.6	1.57140
$n_{1060.0}$	1060.0	1.57747
n_t	1014.0	1.57815
n_s	852.1	1.58094
n_r	706.5	1.58451
n_C	656.3	1.58619
$n_{C'}$	643.8	1.58666
$n_{632.8}$	632.8	1.58710
n_D	589.3	1.58904
n_d	587.6	1.58913
n_e	546.1	1.59142
n_F	486.1	1.59581
$n_{F'}$	480.0	1.59635
n_g	435.8	1.60100
n_h	404.7	1.60530
n_i	365.0	1.61260
$n_{334.1}$	334.1	1.62043
$n_{312.6}$	312.6	1.62759
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.991463823
B_2	0.495982121
B_3	0.987393925
C_1	0.005227305
C_2	0.0172733646
C_3	98.35945790

Constants of Formula for dn/dT

D_0	3.50E-06
D_1	1.22E-08
D_2	6.38E-11
E_0	2.46E-07
E_1	-3.34E-11
λ_{TK} [µm]	0.278

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.957	0.900
2325	0.989	0.973
1970	0.990	0.976
1530	0.995	0.987
1060	1.000	0.999
700	0.999	0.998
660	0.999	0.998
620	0.998	0.995
580	0.998	0.995
546	0.998	0.996
500	0.998	0.994
460	0.997	0.993
436	0.997	0.992
420	0.997	0.992
405	0.997	0.993
400	0.997	0.992
390	0.997	0.992
380	0.996	0.989
370	0.993	0.983
365	0.991	0.978
350	0.981	0.952
334	0.940	0.870
320	0.840	0.650
310	0.720	0.440
300	0.540	0.220
290	0.320	0.060
280		
270		
260		
250		

Color Code

λ80 / λ5	0,000000

Remarks

i-line glass

Relative Partial Dispersion P

$P_{s,t}$	0.2904
$P_{C,s}$	0.5460
$P_{d,C}$	0.3055
$P_{e,d}$	0.2386
$P_{g,F}$	0.5400
$P_{i,h}$	0.7591

Relative Partial Dispersion P'

$P'_{s,t}$	0.2881
$P'_{C',s}$	0.5901
$P'_{d,C'}$	0.2547
$P'_{e,d}$	0.2367
$P'_{g,F'}$	0.4796
$P'_{i,h}$	0.7531

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0008
$\Delta P_{C,s}$	0.0003
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0045

Chemical Properties

CR	3
FR	1
SR	4.4
AR	2
PR	1.3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	5.5
$\alpha_{+20/+300°C}$ [10^{-6}/K]	6.5
T_g [°C]	660
$T_{10^{13}}$ [°C]	657
$T_{10^{7.6}}$ [°C]	791
c_p [J/(g*K)]	0.560
λ [W/(m•K)]	0.990
ρ [g/cm³]	3.30
E [10^3 N/mm²]	84
µ	0.256
K [10^{-6} mm²/N]	2.16
$HK_{0.1/20}$	590
HG	3

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.5	4.0	4.6	1.4	1.9	2.4
+20/+40	3.2	3.7	4.3	1.9	2.3	2.9
+60/+80	3.6	4.1	4.7	2.6	3.0	3.6

Datasheet

SCHOTT
glass made of ideas

N-SK11
564608.308

n_d = 1.56384	ν_d = 60.80	$n_F - n_C$ = 0.009274
n_e = 1.56605	ν_e = 60.55	$n_{F'} - n_{C'}$ = 0.009349

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.53598
$n_{1970.1}$	1970.1	1.54131
$n_{1529.6}$	1529.6	1.54693
$n_{1060.0}$	1060.0	1.55266
n_t	1014.0	1.55330
n_s	852.1	1.55597
n_r	706.5	1.55939
n_C	656.3	1.56101
$n_{C'}$	643.8	1.56146
$n_{632.8}$	632.8	1.56188
n_D	589.3	1.56376
n_d	587.6	1.56384
n_e	546.1	1.56605
n_F	486.1	1.57028
$n_{F'}$	480.0	1.57081
n_g	435.8	1.57530
n_h	404.7	1.57946
n_i	365.0	1.58653
$n_{334.1}$	334.1	1.59414
$n_{312.6}$	312.6	1.60110
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.179636310
B_2	0.229817295
B_3	0.935789652
C_1	0.006802821
C_2	0.0219737205
C_3	101.51323200

Constants of Formula for dn/dT

D_0	2.14E-06
D_1	1.27E-08
D_2	-7.21E-11
E_0	3.51E-07
E_1	5.41E-10
λ_{TK} [µm]	0.238

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.78	0.54
2325	0.88	0.73
1970	0.967	0.92
1530	0.994	0.984
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.999	0.997
500	0.998	0.994
460	0.996	0.990
436	0.995	0.988
420	0.994	0.985
405	0.992	0.980
400	0.990	0.975
390	0.988	0.970
380	0.985	0.963
370	0.980	0.950
365	0.976	0.94
350	0.950	0.88
334	0.87	0.71
320	0.70	0.41
310	0.48	0.16
300	0.21	0.02
290	0.06	
280		
270		
260		
250		

Color Code

λ80 / λ5	34/29

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2874
$P_{C,s}$	0.5436
$P_{d,C}$	0.3051
$P_{e,d}$	0.2385
$P_{g,F}$	0.5411
$P_{i,h}$	0.7626

Relative Partial Dispersion P'

$P'_{s,t}$	0.2850
$P'_{C',s}$	0.5875
$P'_{d,C'}$	0.2544
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4805
$P'_{i,h}$	0.7564

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0024
$\Delta P_{C,s}$	-0.0011
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	-0.0037

Chemical Properties

CR	2
FR	0
SR	2
AR	1
PR	2.3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.5
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.6
T_g [°C]	610
$T_{10^{13}}$ [°C]	601
$T_{10^{7.6}}$ [°C]	760
c_p [J/(g*K)]	0.650
λ [W/(m•K)]	0.920
ρ [g/cm³]	3.08
E [10^3 N/mm²]	79
µ	0.239
K [10^{-6} mm²/N]	2.45
$HK_{0.1/20}$	570
HG	2

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	2.4	2.8	3.4	0.3	0.7	1.2
+20/+40	2.6	3.2	3.8	1.2	1.8	2.4
+60/+80	2.5	3.2	3.9	1.5	2.1	2.8

Datasheet

SCHOTT
glass made of ideas

N-SK14
603606.343

n_d = 1.60311	ν_d = 60.60	$n_F - n_C$ = 0.009953
n_e = 1.60548	ν_e = 60.34	$n_{F'} - n_{C'}$ = 0.010034

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.57336
$n_{1970.1}$	1970.1	1.57903
$n_{1529.6}$	1529.6	1.58502
$n_{1060.0}$	1060.0	1.59113
n_t	1014.0	1.59182
n_s	852.1	1.59467
n_r	706.5	1.59834
n_C	656.3	1.60008
$n_{C'}$	643.8	1.60056
$n_{632.8}$	632.8	1.60101
n_D	589.3	1.60302
n_d	587.6	1.60311
n_e	546.1	1.60548
n_F	486.1	1.61003
$n_{F'}$	480.0	1.61059
n_g	435.8	1.61542
n_h	404.7	1.61988
n_i	365.0	1.62748
$n_{334.1}$	334.1	1.63564
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.936155374
B_2	0.594052018
B_3	1.043745830
C_1	0.004617165
C_2	0.0168859270
C_3	103.73626500

Constants of Formula for dn/dT

D_0	1.58E-06
D_1	1.22E-08
D_2	-8.04E-12
E_0	4.46E-07
E_1	5.22E-10
λ_{TK} [µm]	0.150

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.68	0.38
2325	0.83	0.63
1970	0.959	0.90
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.993
460	0.995	0.988
436	0.994	0.985
420	0.993	0.983
405	0.991	0.978
400	0.990	0.975
390	0.988	0.970
380	0.981	0.952
370	0.971	0.93
365	0.963	0.91
350	0.91	0.79
334	0.77	0.52
320	0.55	0.22
310	0.35	0.07
300	0.16	
290	0.04	
280		
270		
260		
250		

Color Code

λ80 / λ5	35/29

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2864
$P_{C,s}$	0.5427
$P_{d,C}$	0.3049
$P_{e,d}$	0.2385
$P_{g,F}$	0.5415
$P_{i,h}$	0.7631

Relative Partial Dispersion P'

$P'_{s,t}$	0.2841
$P'_{C',s}$	0.5865
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4808
$P'_{i,h}$	0.7569

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	-0.0033
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	-0.0003
$\Delta P_{i,g}$	-0.0044

Chemical Properties

CR	4
FR	2
SR	51.3
AR	2
PR	2.3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.0
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.0
T_g [°C]	654
$T_{10^{13}}$ [°C]	638
$T_{10^{7.6}}$ [°C]	773
c_p [J/(g*K)]	0.636
λ [W/(m•K)]	0.851
ρ [g/cm³]	3.43
E [10^3 N/mm²]	86
µ	0.261
K [10^{-6} mm²/N]	2.00
$HK_{0.1/20}$	600
HG	3

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	2.5	3.0	3.5	0.3	0.8	1.3
+20/+40	2.4	3.1	3.7	1.1	1.7	2.3
+60/+80	2.6	3.3	4.0	1.5	2.2	2.8

Datasheet

SCHOTT
glass made of ideas

N-SK16
620603.358

n_d = 1.62041	ν_d = 60.32	$n_F - n_C$ = 0.010285
n_e = 1.62286	ν_e = 60.08	$n_{F'} - n_{C'}$ = 0.010368

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.58919
$n_{1970.1}$	1970.1	1.59523
$n_{1529.6}$	1529.6	1.60157
$n_{1060.0}$	1060.0	1.60799
n_t	1014.0	1.60871
n_s	852.1	1.61167
n_r	706.5	1.61548
n_C	656.3	1.61727
$n_{C'}$	643.8	1.61777
$n_{632.8}$	632.8	1.61824
n_D	589.3	1.62032
n_d	587.6	1.62041
n_e	546.1	1.62286
n_F	486.1	1.62756
$n_{F'}$	480.0	1.62814
n_g	435.8	1.63312
n_h	404.7	1.63773
n_i	365.0	1.64559
$n_{334.1}$	334.1	1.65403
$n_{312.6}$	312.6	1.66178
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.343177740
B_2	0.241144399
B_3	0.994317969
C_1	0.007046873
C_2	0.0229005000
C_3	92.75085260

Constants of Formula for dn/dT

D_0	-2.37E-08
D_1	1.32E-08
D_2	-1.29E-11
E_0	4.09E-07
E_1	5.17E-10
λ_{TK} [µm]	0.170

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.580	0.260
2325	0.780	0.540
1970	0.950	0.880
1530	0.989	0.973
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.998	0.994
500	0.996	0.991
460	0.994	0.984
436	0.992	0.981
420	0.992	0.979
405	0.990	0.974
400	0.988	0.970
390	0.982	0.956
380	0.971	0.930
370	0.954	0.890
365	0.940	0.860
350	0.870	0.700
334	0.690	0.400
320	0.410	0.110
310	0.210	0.020
300	0.060	
290	0.010	
280		
270		
260		
250		

Color Code

λ80 / λ5	36/30

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2885
$P_{C,s}$	0.5443
$P_{d,C}$	0.3051
$P_{e,d}$	0.2385
$P_{g,F}$	0.5412
$P_{i,h}$	0.7633

Relative Partial Dispersion P'

$P'_{s,t}$	0.2861
$P'_{C',s}$	0.5882
$P'_{d,C'}$	0.2544
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4805
$P'_{i,h}$	0.7572

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0016
$\Delta P_{C,s}$	0.0007
$\Delta P_{F,e}$	-0.0003
$\Delta P_{g,F}$	-0.0011
$\Delta P_{i,g}$	-0.0067

Chemical Properties

CR	4
FR	4
SR	53.3
AR	3.3
PR	3.2

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.3
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7.3
T_g [°C]	636
$T_{10^{13}}$ [°C]	633
$T_{10^{7.6}}$ [°C]	750
c_p [J/(g*K)]	0.578
λ [W/(m•K)]	0.818
ρ [g/cm³]	3.58
E [10^3 N/mm²]	89
µ	0.264
K [10^{-6} mm²/N]	1.90
$HK_{0.1/20}$	600
HG	4

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	1.6	2.2	2.6	-0.5	-0.1	0.4
+20/+40	1.7	2.3	2.9	0.3	0.9	1.4
+60/+80	1.9	2.6	3.2	0.8	1.5	2.1

Datasheet

SCHOTT
glass made of ideas

P-SK57
587596.301

n_d = 1.58700	ν_d = 59.60	$n_F - n_C$ = 0.009849
n_e = 1.58935	ν_e = 59.36	$n_{F'} - n_{C'}$ = 0.009928

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.55688
$n_{1970.1}$	1970.1	1.56271
$n_{1529.6}$	1529.6	1.56885
$n_{1060.0}$	1060.0	1.57507
n_t	1014.0	1.57576
n_s	852.1	1.57862
n_r	706.5	1.58227
n_C	656.3	1.58399
$n_{C'}$	643.8	1.58447
$n_{632.8}$	632.8	1.58492
n_D	589.3	1.58691
n_d	587.6	1.58700
n_e	546.1	1.58935
n_F	486.1	1.59384
$n_{F'}$	480.0	1.59440
n_g	435.8	1.59917
n_h	404.7	1.60359
n_i	365.0	1.61112
$n_{334.1}$	334.1	1.61923
$n_{312.6}$	312.6	1.62669
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.310534140
B_2	0.169376189
B_3	1.109877140
C_1	0.007408772
C_2	0.0254563489
C_3	107.75108700

Constants of Formula for dn/dT

D_0	2.60E-06
D_1	9.40E-09
D_2	-2.30E-11
E_0	4.90E-07
E_1	5.96E-10
λ_{TK} [µm]	0.178

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.400
2325	0.830	0.630
1970	0.954	0.890
1530	0.991	0.978
1060	0.999	0.997
700	0.999	0.997
660	0.999	0.997
620	0.999	0.997
580	0.999	0.997
546	0.999	0.997
500	0.998	0.995
460	0.996	0.991
436	0.996	0.989
420	0.995	0.987
405	0.994	0.985
400	0.994	0.984
390	0.992	0.980
380	0.989	0.973
370	0.984	0.960
365	0.980	0.950
350	0.950	0.870
334	0.820	0.610
320	0.480	0.160
310	0.120	0.000
300	0.000	
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	34/31

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2902
$P_{C,s}$	0.5454
$P_{d,C}$	0.3053
$P_{e,d}$	0.2385
$P_{g,F}$	0.5412
$P_{i,h}$	0.7644

Relative Partial Dispersion P'

$P'_{s,t}$	0.2878
$P'_{C',s}$	0.5894
$P'_{d,C'}$	0.2545
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4806
$P'_{i,h}$	0.7583

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0079
$\Delta P_{C,s}$	0.0036
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	-0.0115

Chemical Properties

CR	4
FR	3
SR	52.3
AR	2
PR	3
SR-J	4
WR-J	1

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	7.2
$\alpha_{+20/+300°C}$ [10^{-6}/K]	8.9
T_g [°C]	493
$T_{10^{13}}$ [°C]	494
$T_{10^{7.6}}$ [°C]	593
c_p [J/(g*K)]	0.760
λ [W/(m•K)]	1.010
AT [°C]	522
ρ [g/cm^3]	3.01
E [10^3 N/mm^2]	93
µ	0.249
K [10^{-6} mm^2/N]	2.17
$HK_{0.1/20}$	535
HG	3
Abrasion Aa	124

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.0	3.7	4.2	0.9	1.5	2.0
+20/+40	2.9	3.6	4.3	1.5	2.2	2.9
+60/+80	2.9	3.7	4.4	1.8	2.6	3.3

Datasheet

SCHOTT
glass made of ideas

P-SK57Q1
586595.301

n_d = 1.58600	ν_d = 59.50	$n_F - n_C$ = 0.009849
n_e = 1.58835	ν_e = 59.26	$n_{F'} - n_{C'}$ = 0.009928

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.55583
$n_{1970.1}$	1970.1	1.56169
$n_{1529.6}$	1529.6	1.56784
$n_{1060.0}$	1060.0	1.57407
n_t	1014.0	1.57476
n_s	852.1	1.57762
n_r	706.5	1.58127
n_C	656.3	1.58299
$n_{C'}$	643.8	1.58347
$n_{632.8}$	632.8	1.58392
n_D	589.3	1.58591
n_d	587.6	1.58600
n_e	546.1	1.58835
n_F	486.1	1.59284
$n_{F'}$	480.0	1.59340
n_g	435.8	1.59817
n_h	404.7	1.60260
n_i	365.0	1.61013
$n_{334.1}$	334.1	1.61826
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.305364830
B_2	0.171434328
B_3	1.101172190
C_1	0.007364088
C_2	0.0255786047
C_3	106.72606000

Constants of Formula for dn/dT

D_0	0.00E00
D_1	0.00E00
D_2	0.00E00
E_0	0.00E00
E_1	0.00E00
λ_{TK} [µm]	0.000

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.400
2325	0.830	0.630
1970	0.954	0.890
1530	0.991	0.978
1060	0.999	0.997
700	0.999	0.997
660	0.999	0.997
620	0.999	0.997
580	0.999	0.997
546	0.999	0.997
500	0.998	0.995
460	0.996	0.991
436	0.996	0.989
420	0.995	0.987
405	0.994	0.985
400	0.994	0.984
390	0.992	0.980
380	0.989	0.973
370	0.984	0.960
365	0.980	0.950
350	0.950	0.870
334	0.820	0.610
320	0.480	0.160
310	0.120	0.000
300	0.000	
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	34/31

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2903
$P_{C,s}$	0.5454
$P_{d,C}$	0.3052
$P_{e,d}$	0.2385
$P_{g,F}$	0.5414
$P_{i,h}$	0.7652

Relative Partial Dispersion P'

$P'_{s,t}$	0.2880
$P'_{C',s}$	0.5894
$P'_{d,C'}$	0.2545
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4807
$P'_{i,h}$	0.7590

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0038
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	-0.0113

Chemical Properties

CR	4
FR	3
SR	52.3
AR	2
PR	3
SR-J	4
WR-J	1

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	7.2
$\alpha_{+20/+300°C}$ [10^{-6}/K]	8.9
T_g [°C]	493
$T_{10^{13}}$ [°C]	494
$T_{10^{7.6}}$ [°C]	593
c_p [J/(g*K)]	0.760
λ [W/(m•K)]	1.010
AT [°C]	522
ρ [g/cm^3]	3.01
E [10^3 N/mm^2]	93
µ	0.249
K [10^{-6} mm^2/N]	2.17
$HK_{0.1/20}$	535
HG	3
Abrasion Aa	124

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	0.0	0.0	0.0	0.0	0.0	0.0
+20/+40	0.0	0.0	0.0	0.0	0.0	0.0
+60/+80	0.0	0.0	0.0	0.0	0.0	0.0

Datasheet

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P-SK58A
589612.297

n_d = 1.58913	ν_d = 61.15	$n_F - n_C$ = 0.009634
n_e = 1.59143	ν_e = 60.93	$n_{F'} - n_{C'}$ = 0.009707

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.55820
$n_{1970.1}$	1970.1	1.56439
$n_{1529.6}$	1529.6	1.57086
$n_{1060.0}$	1060.0	1.57728
n_t	1014.0	1.57799
n_s	852.1	1.58086
n_r	706.5	1.58449
n_C	656.3	1.58618
$n_{C'}$	643.8	1.58665
$n_{632.8}$	632.8	1.58709
n_D	589.3	1.58904
n_d	587.6	1.58913
n_e	546.1	1.59143
n_F	486.1	1.59581
$n_{F'}$	480.0	1.59636
n_g	435.8	1.60100
n_h	404.7	1.60530
n_i	365.0	1.61260
$n_{334.1}$	334.1	1.62045
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.316784100
B_2	0.171154756
B_3	1.125014730
C_1	0.007207175
C_2	0.0245659595
C_3	102.73972800

Constants of Formula for dn/dT

D_0	3.16E-06
D_1	1.23E-08
D_2	-1.08E-11
E_0	4.41E-07
E_1	3.20E-10
λ_{TK} [µm]	0.176

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.550	0.220
2325	0.750	0.480
1970	0.920	0.820
1530	0.984	0.961
1060	0.996	0.991
700	0.995	0.988
660	0.995	0.988
620	0.996	0.989
580	0.997	0.992
546	0.998	0.994
500	0.997	0.993
460	0.996	0.989
436	0.995	0.987
420	0.994	0.986
405	0.994	0.985
400	0.994	0.984
390	0.991	0.977
380	0.986	0.965
370	0.980	0.950
365	0.971	0.930
350	0.920	0.820
334	0.750	0.490
320	0.360	0.080
310	0.070	0.000
300	0.000	
290		
280		
270		
260		
250		

Color Code

λ80 / λ5	35/31

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2982
$P_{C,s}$	0.5519
$P_{d,C}$	0.3062
$P_{e,d}$	0.2386
$P_{g,F}$	0.5386
$P_{i,h}$	0.7578

Relative Partial Dispersion P'

$P'_{s,t}$	0.2959
$P'_{C',s}$	0.5963
$P'_{d,C'}$	0.2554
$P'_{e,d}$	0.2368
$P'_{g,F'}$	0.4784
$P'_{i,h}$	0.7521

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0150
$\Delta P_{C,s}$	0.0065
$\Delta P_{F,e}$	-0.0010
$\Delta P_{g,F}$	-0.0023
$\Delta P_{i,g}$	-0.0080

Chemical Properties

CR	
FR	
SR	
AR	
PR	
SR-J	4
WR-J	2

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6.8
$\alpha_{+20/+300°C}$ [10^{-6}/K]	8.4
T_g [°C]	510
$T_{10^{13}}$ [°C]	510
$T_{10^{7.6}}$ [°C]	608
c_p [J/(g*K)]	0.770
λ [W/(m•K)]	1.020
AT [°C]	551
ρ [g/cm^3]	2.97
E [10^3 N/mm^2]	97
µ	0.245
K [10^{-6} mm^2/N]	2.12
$HK_{0.1/20}$	662
Abrasion Aa	102

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.2	3.8	4.4	1.0	1.6	2.2
+20/+40	3.2	3.8	4.4	1.8	2.4	3.0
+60/+80	3.3	4.0	4.7	2.2	2.9	3.6

Datasheet

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P-SK60
610579.308

n_d = 1.61035	ν_d = 57.90	$n_F - n_C$ = 0.010541
n_e = 1.61286	ν_e = 57.66	$n_{F'} - n_{C'}$ = 0.010628

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.57831
$n_{1970.1}$	1970.1	1.58450
$n_{1529.6}$	1529.6	1.59102
$n_{1060.0}$	1060.0	1.59762
n_t	1014.0	1.59836
n_s	852.1	1.60140
n_r	706.5	1.60530
n_C	656.3	1.60714
$n_{C'}$	643.8	1.60765
$n_{632.8}$	632.8	1.60813
n_D	589.3	1.61026
n_d	587.6	1.61035
n_e	546.1	1.61286
n_F	486.1	1.61768
$n_{F'}$	480.0	1.61828
n_g	435.8	1.62340
n_h	404.7	1.62815
n_i	365.0	1.63627
$n_{334.1}$	334.1	1.64506
$n_{312.6}$	312.6	1.65317
$n_{296.7}$	296.7	1.66061
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.407904420
B_2	0.143381417
B_3	1.165139470
C_1	0.007843824
C_2	0.0287769365
C_3	105.37339700

Constants of Formula for dn/dT

D_0	2.41E-06
D_1	9.52E-09
D_2	-8.08E-12
E_0	4.72E-07
E_1	6.22E-10
λ_{TK} [µm]	0.193

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.400
2325	0.830	0.630
1970	0.959	0.900
1530	0.993	0.983
1060	0.999	0.998
700	0.999	0.997
660	0.998	0.996
620	0.998	0.996
580	0.999	0.998
546	0.999	0.998
500	0.999	0.997
460	0.998	0.995
436	0.998	0.994
420	0.998	0.994
405	0.997	0.993
400	0.997	0.992
390	0.995	0.988
380	0.993	0.983
370	0.990	0.974
365	0.987	0.967
350	0.967	0.920
334	0.910	0.780
320	0.750	0.480
310	0.480	0.160
300	0.150	0.010
290	0.010	0.000
280	0.000	
270		
260		
250		

Color Code

λ80 / λ5	33/29

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2887
$P_{C,s}$	0.5438
$P_{d,C}$	0.3049
$P_{e,d}$	0.2384
$P_{g,F}$	0.5427
$P_{i,h}$	0.7702

Relative Partial Dispersion P'

$P'_{s,t}$	0.2863
$P'_{C',s}$	0.5876
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4819
$P'_{i,h}$	0.7639

Deviation of Rel. Partial Disp. ΔP from the normal line

$\Delta P_{C,t}$	0.0128
$\Delta P_{C,s}$	0.0059
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	-0.0037
$\Delta P_{i,g}$	-0.0177

Chemical Properties

CR	3
FR	5
SR	53.4
AR	2.3
PR	3.3
SR-J	4
WR-J	3

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	7.1
$\alpha_{+20/+300°C}$ [10^{-6}/K]	8.9
T_g [°C]	507
$T_{10^{13}}$ [°C]	509
$T_{10^{7.6}}$ [°C]	606
c_p [J/(g*K)]	0.760
λ [W/(m•K)]	1.130
AT [°C]	547
ρ [g/cm^3]	3.08
E [10^3 N/mm^2]	99
µ	0.253
K [10^{-6} mm^2/N]	2.04
$HK_{0.1/20}$	601
Abrasion Aa	86

Temperature Coefficients of the Refractive Index

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	3.0	3.7	4.3	0.9	1.5	2.1
+20/+40	2.9	3.6	4.3	1.5	2.3	2.9
+60/+80	2.9	3.8	4.5	1.8	2.7	3.4

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