

Оптическое стекло FK, PK, PSK

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Барнаул (3852)73-04-60
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Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
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Волгоград (844)278-03-48
Вологда (8172)26-41-59
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Калининград (4012)72-03-81
Калуга (4842)92-23-67
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Магнитогорск (3519)55-03-13
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Орел (4862)44-53-42
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Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

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Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
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Ставрополь (8652)20-65-13
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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

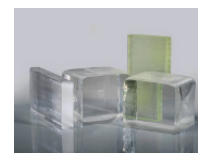
Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: sqh@nt-rt.ru || сайт: <https://schott.nt-rt.ru/>

Datasheet



FK5HTi 487705.245

$n_d = 1.48748$
 $n_e = 1.48913$

$v_d = 70.47$
 $v_e = 70.29$

$n_F - n_C = 0.006918$
 $n_{F'} - n_{C'} = 0.006959$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.46180
$n_{1970.1}$	1970.1	1.46738
$n_{1529.6}$	1529.6	1.47312
$n_{1060.0}$	1060.0	1.47855
n_t	1014.0	1.47912
n_s	852.1	1.48137
n_r	706.5	1.48409
n_C	656.3	1.48534
$n_{C'}$	643.8	1.48568
$n_{632.8}$	632.8	1.48600
n_D	589.3	1.48742
n_d	587.6	1.48748
n_e	546.1	1.48913
n_F	486.1	1.49225
$n_{F'}$	480.0	1.49264
n_g	435.8	1.49591
n_h	404.7	1.49892
n_i	365.0	1.50398
$n_{334.1}$	334.1	1.50935
$n_{312.6}$	312.6	1.51423
$n_{296.7}$	296.7	1.51861
$n_{280.4}$	280.4	1.52409
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.909362180
B_2	0.279077054
B_3	0.891813298
C_1	0.005201425
C_2	0.0158938446
C_3	95.91094480

Constants of Formula for dn/dT

D_0	-7.47E-06
D_1	1.58E-08
D_2	-1.23E-11
E_0	3.58E-07
E_1	4.03E-10
λ_{TK} [μm]	0.164

Temperature Coefficients of the Refractive Index

[°C]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/-20	-1.6	-1.2	-0.9	-3.6	-3.3	-3.0
+20/+40	-1.5	-1.1	-0.7	-2.7	-2.4	-2.0
+60/+80	-1.3	-0.8	-0.4	-2.3	-1.8	-1.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.680	0.390
2325	0.830	0.630
1970	0.971	0.930
1530	0.986	0.965
1060	0.999	0.998
700	0.999	0.997
660	0.998	0.995
620	0.998	0.994
580	0.998	0.995
546	0.998	0.995
500	0.998	0.994
460	0.998	0.995
436	0.998	0.996
420	0.999	0.997
405	0.999	0.997
400	0.999	0.997
390	0.999	0.997
380	0.998	0.996
370	0.999	0.996
365	0.998	0.996
350	0.998	0.994
334	0.996	0.989
320	0.992	0.979
310	0.983	0.958
300	0.959	0.900
290	0.900	0.760
280	0.760	0.510
270	0.550	0.220
260	0.300	0.050
250	0.120	0.000

Color Code

λ_{80} / λ_5 29/25

Remarks

i-line glass

Relative Partial Dispersion P

$P_{s,t}$	0.3253
$P_{C,s}$	0.5742
$P_{d,C}$	0.3098
$P_{e,d}$	0.2388
$P_{g,F}$	0.5288
$P_{i,h}$	0.7315

Relative Partial Dispersion P'

$P'_{s,t}$	0.3234
$P'_{C,s}$	0.6203
$P'_{d,C'}$	0.2584
$P'_{e,d}$	0.2374
$P'_{g,F'}$	0.4703
$P'_{i,h}$	0.7271

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0202
$\Delta P_{C,s}$	0.0070
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0036
$\Delta P_{i,g}$	0.0321

Chemical Properties

CR	2
FR	1
SR	4
AR	2
PR	2.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	10.0
T_g [°C]	466
T_{10}^{13} [°C]	469
$T_{10}^{7.6}$ [°C]	672
c_p [J/(g·K)]	0.808
λ [W/(m·K)]	0.925
ρ [g/cm ³]	2.45
E [10^3 N/mm ²]	62
μ	0.232
K [10^{-6} mm ² /N]	2.91
$HK_{0.1/20}$	520

N-FK5 487704.245

$n_d = 1.48749$
 $n_e = 1.48914$

$v_d = 70.41$
 $v_e = 70.23$

$n_F - n_C = 0.006924$
 $n_{F'} - n_{C'} = 0.006965$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.46181
$n_{1970.1}$	1970.1	1.46738
$n_{1529.6}$	1529.6	1.47312
$n_{1060.0}$	1060.0	1.47855
n_t	1014.0	1.47912
n_s	852.1	1.48137
n_r	706.5	1.48410
n_C	656.3	1.48535
$n_{C'}$	643.8	1.48569
$n_{632.8}$	632.8	1.48601
n_D	589.3	1.48743
n_d	587.6	1.48749
n_e	546.1	1.48914
n_F	486.1	1.49227
$n_{F'}$	480.0	1.49266
n_g	435.8	1.49593
n_h	404.7	1.49894
n_i	365.0	1.50401
$n_{334.1}$	334.1	1.50939
$n_{312.6}$	312.6	1.51428
$n_{296.7}$	296.7	1.51867
$n_{280.4}$	280.4	1.52415
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.844309338
B_2	0.344147824
B_3	0.910790213
C_1	0.004751120
C_2	0.0149814849
C_3	97.86002930

Constants of Formula for dn/dT

D_0	-7.24E-06
D_1	1.58E-08
D_2	-9.51E-12
E_0	3.51E-07
E_1	4.61E-10
λ_{TK} [μm]	0.156

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	-1.5	-1.2	-0.9	-3.5	-3.2	-2.9
+20/+40	-1.4	-1.0	-0.6	-2.6	-2.3	-2.0
+60/+80	-1.2	-0.7	-0.3	-2.2	-1.8	-1.4

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.680	0.380
2325	0.830	0.630
1970	0.971	0.930
1530	0.986	0.965
1060	0.999	0.998
700	0.998	0.995
660	0.996	0.991
620	0.996	0.990
580	0.996	0.991
546	0.996	0.991
500	0.996	0.989
460	0.996	0.990
436	0.997	0.992
420	0.997	0.993
405	0.998	0.994
400	0.998	0.994
390	0.998	0.994
380	0.996	0.991
370	0.997	0.992
365	0.997	0.992
350	0.995	0.988
334	0.991	0.977
320	0.980	0.950
310	0.954	0.890
300	0.900	0.760
290	0.760	0.500
280	0.500	0.180
270	0.220	0.020
260	0.060	0.000
250	0.000	

Color Code

λ_{80} / λ_5 30/26

Remarks

suitable for precision molding

step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.3252
$P_{C,s}$	0.5740
$P_{d,C}$	0.3097
$P_{e,d}$	0.2388
$P_{g,F}$	0.5290
$P_{i,h}$	0.7319

Relative Partial Dispersion P'

$P'_{s,t}$	0.3232
$P'_{C,s}$	0.6201
$P'_{d,C'}$	0.2584
$P'_{e,d}$	0.2374
$P'_{g,F'}$	0.4704
$P'_{i,h}$	0.7276

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0202
$\Delta P_{C,s}$	0.0070
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0036
$\Delta P_{i,g}$	0.0322

Chemical Properties

CR	2
FR	1
SR	4
AR	2
PR	2.3
SR-J	5
WR-J	4

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	9.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	10.0
T_g [°C]	466
T_{10}^{13} [°C]	469
$T_{10}^{7.6}$ [°C]	672
c_p [J/(g·K)]	0.808
λ [W/(m·K)]	0.925
AT [°C]	557
ρ [g/cm ³]	2.45
E [10^3 N/mm ²]	62
μ	0.232
K [10^{-6} mm ² /N]	2.91
HK _{0.1/20}	520
HG	3
Abrasion Aa	109

N-FK51A 487845.368

$n_d = 1.48656$
 $n_e = 1.48794$

$v_d = 84.47$
 $v_e = 84.07$

$n_F - n_C = 0.005760$
 $n_F - n_C = 0.005804$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.46958
$n_{1970.1}$	1970.1	1.47271
$n_{1529.6}$	1529.6	1.47608
$n_{1060.0}$	1060.0	1.47959
n_t	1014.0	1.47999
n_s	852.1	1.48165
n_r	706.5	1.48379
n_C	656.3	1.48480
$n_{C'}$	643.8	1.48508
$n_{632.8}$	632.8	1.48534
n_D	589.3	1.48651
n_d	587.6	1.48656
n_e	546.1	1.48794
n_F	486.1	1.49056
$n_{F'}$	480.0	1.49088
n_g	435.8	1.49364
n_h	404.7	1.49618
n_i	365.0	1.50046
$n_{334.1}$	334.1	1.50501
$n_{312.6}$	312.6	1.50911
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.971247817
B_2	0.216901417
B_3	0.904651666
C_1	0.004723020
C_2	0.0153575612
C_3	168.68133000

Constants of Formula for dn/dT

D_0	-1.83E-05
D_1	-7.89E-09
D_2	-1.63E-12
E_0	3.74E-07
E_1	3.46E-10
λ_{TK} [μm]	0.150

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	-4.9	-4.6	-4.3	-6.9	-6.6	-6.4
+20/+40	-6.0	-5.7	-5.3	-7.3	-7.0	-6.7
+60/+80	-6.5	-6.2	-5.8	-7.5	-7.2	-6.9

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.89	0.75
2325	0.93	0.84
1970	0.996	0.989
1530	0.996	0.990
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.998	0.996
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.997	0.993
436	0.997	0.992
420	0.997	0.992
405	0.997	0.993
400	0.997	0.993
390	0.997	0.992
380	0.995	0.988
370	0.990	0.976
365	0.985	0.963
350	0.95	0.88
334	0.83	0.63
320	0.62	0.30
310	0.43	0.12
300	0.26	0.04
290	0.14	0.01
280	0.06	
270		
260		
250		

Color Code

λ_{80} / λ_5 34/28

Remarks

suitable for precision molding
step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.2879
$P_{C,s}$	0.5465
$P_{d,C}$	0.3062
$P_{e,d}$	0.2388
$P_{g,F}$	0.5359
$P_{i,h}$	0.7429

Relative Partial Dispersion P'

$P'_{s,t}$	0.2858
$P'_{C,s}$	0.5909
$P'_{d,C'}$	0.2554
$P'_{e,d}$	0.2370
$P'_{g,F'}$	0.4759
$P'_{i,h}$	0.7373

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.1112
$\Delta P_{C,s}$	-0.0533
$\Delta P_{F,e}$	0.0110
$\Delta P_{g,F}$	0.0342
$\Delta P_{i,g}$	0.1675

Chemical Properties

CR	1
FR	0
SR	52.3
AR	2.2
PR	4.3
SR-J	3
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	12.7
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	14.8
T_g [°C]	464
T_{10}^{13} [°C]	463
$T_{10}^{7.6}$ [°C]	527
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.760
AT [°C]	503
ρ [g/cm ³]	3.68
E [10^3 N/mm ²]	73
μ	0.302
K [10^{-6} mm ² /N]	0.63
HK _{0.1/20}	345
HG	6
Abrasion Aa	528

N-FK58 456909.365

$n_d = 1.45600$
 $n_e = 1.45720$

$v_d = 90.90$
 $v_e = 90.47$

$n_F - n_C = 0.005017$
 $n_{F'} - n_{C'} = 0.005053$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.44114
$n_{1970.1}$	1970.1	1.44388
$n_{1529.6}$	1529.6	1.44683
$n_{1060.0}$	1060.0	1.44991
n_t	1014.0	1.45026
n_s	852.1	1.45171
n_r	706.5	1.45358
n_C	656.3	1.45446
$n_{C'}$	643.8	1.45471
$n_{632.8}$	632.8	1.45494
n_D	589.3	1.45596
n_d	587.6	1.45600
n_e	546.1	1.45720
n_F	486.1	1.45948
$n_{F'}$	480.0	1.45976
n_g	435.8	1.46216
n_h	404.7	1.46436
n_i	365.0	1.46807
$n_{334.1}$	334.1	1.47199
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.738042712
B_2	0.363371967
B_3	0.989296264
C_1	0.003390656
C_2	0.0117551189
C_3	212.84214500

Constants of Formula for dn/dT

D_0	-2.05E-05
D_1	-6.33E-09
D_2	4.13E-11
E_0	3.84E-07
E_1	1.63E-10
λ_{TK} [μm]	0.073

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	-5.4	-5.1	-4.8	-7.3	-7.1	-6.8
+20/+40	-6.5	-6.2	-5.9	-7.7	-7.4	-7.2
+60/+80	-6.8	-6.5	-6.2	-7.8	-7.5	-7.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.997	0.993
2325	0.998	0.996
1970	0.999	0.998
1530	0.999	0.998
1060	0.998	0.995
700	0.997	0.993
660	0.997	0.993
620	0.997	0.994
580	0.998	0.994
546	0.998	0.995
500	0.998	0.994
460	0.997	0.992
436	0.996	0.991
420	0.996	0.991
405	0.996	0.991
400	0.996	0.991
390	0.996	0.990
380	0.995	0.987
370	0.992	0.980
365	0.990	0.975
350	0.976	0.940
334	0.930	0.830
320	0.820	0.610
310	0.690	0.400
300	0.530	0.200
290	0.360	0.080
280	0.240	0.030
270	0.150	0.010
260	0.110	0.010
250	0.090	0.000

Color Code

$\lambda_{80} / \lambda_{5}$ 33/--

Remarks

XLS glass

Relative Partial Dispersion P

$P_{s,t}$	0.2894
$P_{C,s}$	0.5481
$P_{d,C}$	0.3066
$P_{e,d}$	0.2388
$P_{g,F}$	0.5347
$P_{i,h}$	0.7387

Relative Partial Dispersion P'

$P'_{s,t}$	0.2873
$P'_{C,s}$	0.5927
$P'_{d,C'}$	0.2557
$P'_{e,d}$	0.2371
$P'_{g,F'}$	0.4749
$P'_{i,h}$	0.7334

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.1386
$\Delta P_{C,s}$	-0.0667
$\Delta P_{F,e}$	0.0140
$\Delta P_{g,F}$	0.0438
$\Delta P_{i,g}$	0.2157

Chemical Properties

CR	1
FR	1
SR	52.3
AR	3.3
PR	4.3
SR-J	4
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	13.7
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	15.7
T_g [°C]	445
T_{10}^{13} [°C]	448
$T_{10}^{7.6}$ [°C]	508
c_p [J/(g·K)]	0.710
λ [W/(m·K)]	0.760
AT [°C]	475
ρ [g/cm ³]	3.65
E [10 ³ N/mm ²]	70
μ	0.301
K [10 ⁻⁶ mm ² /N]	0.54
HK _{0.1/20}	372
HG	6

N-PK51 529770.386

$n_d = 1.52855$
 $n_e = 1.53019$

$v_d = 76.98$
 $v_e = 76.58$

$n_F - n_C = 0.006867$
 $n_{F'} - n_{C'} = 0.006923$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.50987
$n_{1970.1}$	1970.1	1.51312
$n_{1529.6}$	1529.6	1.51665
$n_{1060.0}$	1060.0	1.52045
n_t	1014.0	1.52089
n_s	852.1	1.52278
n_r	706.5	1.52527
n_C	656.3	1.52646
$n_{C'}$	643.8	1.52680
$n_{632.8}$	632.8	1.52711
n_D	589.3	1.52849
n_d	587.6	1.52855
n_e	546.1	1.53019
n_F	486.1	1.53333
$n_{F'}$	480.0	1.53372
n_g	435.8	1.53704
n_h	404.7	1.54010
n_i	365.0	1.54527
$n_{334.1}$	334.1	1.55079
$n_{312.6}$	312.6	1.55579
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.156107750
B_2	0.153229344
B_3	0.785618966
C_1	0.005855974
C_2	0.0194072416
C_3	140.53704600

Constants of Formula for dn/dT

D_0	-1.98E-05
D_1	-6.06E-09
D_2	1.60E-11
E_0	4.16E-07
E_1	5.01E-10
λ_{TK} [μm]	0.134

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	-6.0	-5.7	-5.4	-8.1	-7.8	-7.5
+20/+40	-7.1	-6.7	-6.4	-8.4	-8.1	-7.7
+60/+80	-7.5	-7.1	-6.7	-8.6	-8.2	-7.8

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.920	0.810
2325	0.940	0.860
1970	0.986	0.966
1530	0.994	0.985
1060	0.998	0.994
700	0.997	0.992
660	0.996	0.991
620	0.997	0.992
580	0.998	0.995
546	0.998	0.996
500	0.997	0.993
460	0.995	0.988
436	0.994	0.984
420	0.994	0.984
405	0.994	0.986
400	0.994	0.986
390	0.994	0.984
380	0.989	0.973
370	0.982	0.955
365	0.976	0.940
350	0.930	0.840
334	0.820	0.600
320	0.600	0.280
310	0.400	0.100
300	0.210	0.020
290	0.060	0.000
280	0.010	
270	0.000	
260		
250		

Color Code

λ_{80} / λ_5 34/29

Remarks

suitable for precision molding

step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.2750
$P_{C,s}$	0.5360
$P_{d,C}$	0.3046
$P_{e,d}$	0.2387
$P_{g,F}$	0.5401
$P_{i,h}$	0.7535

Relative Partial Dispersion P'

$P'_{s,t}$	0.2727
$P'_{C,s}$	0.5797
$P'_{d,C'}$	0.2540
$P'_{e,d}$	0.2367
$P'_{g,F'}$	0.4794
$P'_{i,h}$	0.7473

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0991
$\Delta P_{C,s}$	-0.0463
$\Delta P_{F,e}$	0.0088
$\Delta P_{g,F}$	0.0258
$\Delta P_{i,g}$	0.1203

Chemical Properties

CR	1
FR	0
SR	52.3
AR	3.3
PR	4.3
SR-J	3
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	12.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	14.1
T_g [°C]	487
T_{10}^{13} [°C]	488
$T_{10}^{7.6}$ [°C]	568
c_p [J/(g·K)]	0.620
λ [W/(m·K)]	0.650
AT [°C]	528
ρ [g/cm ³]	3.86
E [10 ³ N/mm ²]	74
μ	0.295
K [10 ⁻⁶ mm ² /N]	0.54
HK _{0.1/20}	415
HG	6
Abrasion Aa	592

N-PK52A 497816.370

$n_d = 1.49700$

$v_d = 81.61$

$n_F - n_C = 0.006090$

$n_e = 1.49845$

$v_e = 81.21$

$n_F - n_C = 0.006138$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.47966
$n_{1970.1}$	1970.1	1.48279
$n_{1529.6}$	1529.6	1.48616
$n_{1060.0}$	1060.0	1.48971
n_t	1014.0	1.49012
n_s	852.1	1.49184
n_r	706.5	1.49408
n_C	656.3	1.49514
$n_{C'}$	643.8	1.49544
$n_{632.8}$	632.8	1.49571
n_D	589.3	1.49695
n_d	587.6	1.49700
n_e	546.1	1.49845
n_F	486.1	1.50123
$n_{F'}$	480.0	1.50157
n_g	435.8	1.50450
n_h	404.7	1.50720
n_i	365.0	1.51175
$n_{334.1}$	334.1	1.51658
$n_{312.6}$	312.6	1.52096
$n_{296.7}$	296.7	1.52489
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.029607000
B_2	0.188050600
B_3	0.736488165
C_1	0.005168002
C_2	0.0166658798
C_3	138.96412900

Constants of Formula for dn/dT

D_0	-1.97E-05
D_1	-5.50E-09
D_2	5.28E-12
E_0	3.60E-07
E_1	2.45E-10
λ_{TK} [μm]	0.172

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	-5.7	-5.4	-5.1	-7.7	-7.4	-7.1
+20/+40	-6.7	-6.4	-6.0	-8.0	-7.7	-7.4
+60/+80	-7.1	-6.8	-6.4	-8.1	-7.8	-7.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.987	0.967
2325	0.991	0.978
1970	0.996	0.990
1530	0.998	0.994
1060	0.998	0.994
700	0.997	0.993
660	0.997	0.993
620	0.998	0.995
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.997	0.992
436	0.996	0.990
420	0.996	0.990
405	0.997	0.992
400	0.997	0.992
390	0.997	0.992
380	0.996	0.989
370	0.992	0.980
365	0.988	0.970
350	0.950	0.88
334	0.83	0.63
320	0.62	0.30
310	0.43	0.12
300	0.25	0.04
290	0.12	0.01
280	0.04	
270	0.01	
260		
250		

Color Code

λ_{80} / λ_5 34/28

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2819
$P_{C,s}$	0.5417
$P_{d,C}$	0.3055
$P_{e,d}$	0.2388
$P_{g,F}$	0.5377
$P_{i,h}$	0.7470

Relative Partial Dispersion P'

$P'_{s,t}$	0.2797
$P'_{C,s}$	0.5858
$P'_{d,C'}$	0.2548
$P'_{e,d}$	0.2369
$P'_{g,F'}$	0.4774
$P'_{i,h}$	0.7412

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.1084
$\Delta P_{C,s}$	-0.0514
$\Delta P_{F,e}$	0.0103
$\Delta P_{g,F}$	0.0311
$\Delta P_{i,g}$	0.1497

Chemical Properties

CR	1
FR	0
SR	52.3
AR	3.3
PR	4.3
SR-J	4
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	13.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	15.0
T_g [°C]	467
T_{10}^{13} [°C]	467
$T_{10}^{7.6}$ [°C]	538
c_p [J/(g·K)]	0.670
λ [W/(m·K)]	0.730
AT [°C]	520
ρ [g/cm ³]	3.70
E [10^3 N/mm ²]	71
μ	0.298
K [10^{-6} mm ² /N]	0.65
HK _{0.1/20}	355
HG	6
Abrasion Aa	526

N-PSK3 552635.291

$n_d = 1.55232$

$v_d = 63.46$

$n_F - n_C = 0.008704$

$n_e = 1.55440$

$v_e = 63.23$

$n_F - n_C = 0.008767$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.52375
$n_{1970.1}$	1970.1	1.52954
$n_{1529.6}$	1529.6	1.53558
$n_{1060.0}$	1060.0	1.54154
n_t	1014.0	1.54218
n_s	852.1	1.54482
n_r	706.5	1.54811
n_C	656.3	1.54965
$n_{C'}$	643.8	1.55008
$n_{632.8}$	632.8	1.55048
n_D	589.3	1.55224
n_d	587.6	1.55232
n_e	546.1	1.55440
n_F	486.1	1.55835
$n_{F'}$	480.0	1.55885
n_g	435.8	1.56302
n_h	404.7	1.56688
n_i	365.0	1.57342
$n_{334.1}$	334.1	1.58041
$n_{312.6}$	312.6	1.58679
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	0.887272110
B_2	0.489592425
B_3	1.048652960
C_1	0.004698241
C_2	0.0161818463
C_3	104.37497500

Constants of Formula for dn/dT

D_0	2.03E-06
D_1	1.19E-08
D_2	2.46E-11
E_0	3.14E-07
E_1	2.45E-10
λ_{TK} [μm]	0.235

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	2.6	3.1	3.6	0.6	1.0	1.5
+20/+40	2.5	3.0	3.5	1.2	1.6	2.1
+60/+80	2.7	3.2	3.8	1.7	2.2	2.7

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.650	0.340
2325	0.810	0.590
1970	0.950	0.880
1530	0.991	0.978
1060	0.999	0.997
700	0.998	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.993
500	0.996	0.990
460	0.995	0.987
436	0.994	0.986
420	0.994	0.986
405	0.995	0.987
400	0.994	0.986
390	0.993	0.983
380	0.991	0.977
370	0.988	0.971
365	0.985	0.964
350	0.967	0.920
334	0.910	0.800
320	0.770	0.520
310	0.580	0.260
300	0.320	0.060
290	0.120	
280	0.030	
270		
260		
250		

Color Code

λ_{80} / λ_5 33/28

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.3023
$P_{C,s}$	0.5555
$P_{d,C}$	0.3069
$P_{e,d}$	0.2386
$P_{g,F}$	0.5365
$P_{i,h}$	0.7509

Relative Partial Dispersion P'

$P'_{s,t}$	0.3001
$P'_{C,s}$	0.6002
$P'_{d,C'}$	0.2559
$P'_{e,d}$	0.2369
$P'_{g,F'}$	0.4767
$P'_{i,h}$	0.7454

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0118
$\Delta P_{C,s}$	0.0047
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0005
$\Delta P_{i,g}$	0.0016

Chemical Properties

CR	3
FR	0
SR	2.2
AR	2
PR	2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.3
T_g [°C]	599
T_{10}^{13} [°C]	597
$T_{10}^{7.6}$ [°C]	736
c_p [J/(g·K)]	0.682
λ [W/(m·K)]	0.990
ρ [g/cm ³]	2.91
E [10^3 N/mm ²]	84
μ	0.226
K [10^{-6} mm ² /N]	2.48
$HK_{0.1/20}$	630
HG	2

N-PSK53A 618634.357

$n_d = 1.61800$

$v_d = 63.39$

$n_F - n_C = 0.009749$

$n_e = 1.62033$

$v_e = 63.10$

$n_{F'} - n_{C'} = 0.009831$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.59015
$n_{1970.1}$	1970.1	1.59528
$n_{1529.6}$	1529.6	1.60073
$n_{1060.0}$	1060.0	1.60641
n_t	1014.0	1.60706
n_s	852.1	1.60979
n_r	706.5	1.61334
n_C	656.3	1.61503
$n_{C'}$	643.8	1.61550
$n_{632.8}$	632.8	1.61595
n_D	589.3	1.61791
n_d	587.6	1.61800
n_e	546.1	1.62033
n_F	486.1	1.62478
$n_{F'}$	480.0	1.62534
n_g	435.8	1.63007
n_h	404.7	1.63445
n_i	365.0	1.64190
$n_{334.1}$	334.1	1.64991
$n_{312.6}$	312.6	1.65724
$n_{296.7}$	296.7	1.66390
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.381218360
B_2	0.196745645
B_3	0.886089205
C_1	0.007064163
C_2	0.0233251345
C_3	97.48473450

Constants of Formula for dn/dT

D_0	-9.28E-06
D_1	7.19E-09
D_2	1.45E-12
E_0	4.06E-07
E_1	3.17E-10
λ_{TK} [μm]	0.190

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	-2.6	-2.1	-1.6	-4.7	-4.3	-3.8
+20/+40	-2.9	-2.4	-1.8	-4.3	-3.8	-3.3
+60/+80	-2.9	-2.3	-1.8	-4.0	-3.5	-2.9

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.610	0.290
2325	0.760	0.510
1970	0.920	0.800
1530	0.982	0.956
1060	0.998	0.994
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.998	0.994
546	0.998	0.995
500	0.997	0.992
460	0.994	0.986
436	0.993	0.982
420	0.992	0.979
405	0.988	0.970
400	0.985	0.964
390	0.976	0.940
380	0.959	0.900
370	0.930	0.830
365	0.910	0.780
350	0.780	0.530
334	0.530	0.200
320	0.230	0.030
310	0.060	0.000
300	0.000	
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 36/31

Remarks

step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.2797
$P_{C,s}$	0.5380
$P_{d,C}$	0.3044
$P_{e,d}$	0.2385
$P_{g,F}$	0.5424
$P_{i,h}$	0.7642

Relative Partial Dispersion P'

$P'_{s,t}$	0.2774
$P'_{C,s}$	0.5816
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4815
$P'_{i,h}$	0.7578

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0279
$\Delta P_{C,s}$	-0.0127
$\Delta P_{F,e}$	0.0020
$\Delta P_{g,F}$	0.0052
$\Delta P_{i,g}$	0.0208

Chemical Properties

CR	1
FR	1
SR	53.3
AR	2.3
PR	4.3
SR-J	5
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	9.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	10.8
T_g [°C]	606
T_{10}^{13} [°C]	609
$T_{10}^{7.6}$ [°C]	699
c_p [J/(g·K)]	0.590
λ [W/(m·K)]	0.640
AT [°C]	647
ρ [g/cm ³]	3.57
E [10^3 N/mm ²]	76
μ	0.288
K [10^{-6} mm ² /N]	1.16
HK _{0.1/20}	415
HG	6
Abrasion Aa	284

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Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
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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

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: sqh@nt-rt.ru || сайт: <https://schott.nt-rt.ru/>