

Оптическое стекло BASF, LAF, LASF

Технические характеристики

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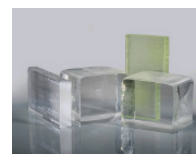
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Datasheet



N-BASF2 664360.315

 $n_d = 1.66446$
 $v_d = 36.00$
 $n_F - n_C = 0.018457$
 $n_e = 1.66883$
 $v_e = 35.73$
 $n_F - n_C = 0.018720$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.62552
$n_{1970.1}$	1970.1	1.63109
$n_{1529.6}$	1529.6	1.63734
$n_{1060.0}$	1060.0	1.64484
n_t	1014.0	1.64581
n_s	852.1	1.65007
n_r	706.5	1.65607
n_C	656.3	1.65905
$n_{C'}$	643.8	1.65990
$n_{632.8}$	632.8	1.66070
n_D	589.3	1.66430
n_d	587.6	1.66446
n_e	546.1	1.66883
n_F	486.1	1.67751
$n_{F'}$	480.0	1.67862
n_g	435.8	1.68838
n_h	404.7	1.69792
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	1.536520810
B_2	0.156971102
B_3	1.301968150
C_1	0.010843573
C_2	0.0562278762
C_3	131.33970000

Constants of Formula for dn/dT

D_0	1.89E-06
D_1	1.22E-08
D_2	-1.61E-11
E_0	7.77E-07
E_1	9.96E-10
λ_{TK} [μm]	0.256

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	2.8	4.1	5.6	0.6	1.9	3.3
+20/+40	2.9	4.4	6.2	1.5	3.0	4.7
+60/+80	3.1	4.8	6.7	2.0	3.6	5.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.860	0.680
2325	0.900	0.760
1970	0.971	0.930
1530	0.994	0.985
1060	0.999	0.997
700	0.996	0.990
660	0.994	0.985
620	0.994	0.985
580	0.995	0.987
546	0.994	0.985
500	0.988	0.971
460	0.980	0.951
436	0.971	0.930
420	0.954	0.890
405	0.910	0.800
400	0.890	0.750
390	0.800	0.580
380	0.630	0.320
370	0.320	0.060
365	0.160	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

 $\lambda_{80} / \lambda_5 = 41/36$

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2309
$P_{C,s}$	0.4869
$P_{d,C}$	0.2929
$P_{e,d}$	0.2367
$P_{g,F}$	0.5890
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2277
$P'_{C,s}$	0.5253
$P'_{d,C'}$	0.2435
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5214
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0021
$\Delta P_{C,s}$	0.0001
$\Delta P_{F,e}$	0.0010
$\Delta P_{g,F}$	0.0057
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.1
T_g [°C]	619
T_{10}^{13} [°C]	622
$T_{10}^{7.6}$ [°C]	766
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	0.940
ρ [g/cm ³]	3.15
E [10^3 N/mm ²]	84
μ	0.247
K [10^{-6} mm ² /N]	3.04
$HK_{0.1/20}$	580
HG	3

N-BASF64 704394.320

$n_d = 1.70400$

$v_d = 39.38$

$n_F - n_C = 0.017875$

$n_e = 1.70824$

$v_e = 39.12$

$n_F - n_C = 0.018105$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.66373
$n_{1970.1}$	1970.1	1.66988
$n_{1529.6}$	1529.6	1.67667
$n_{1060.0}$	1060.0	1.68453
n_t	1014.0	1.68551
n_s	852.1	1.68982
n_r	706.5	1.69578
n_C	656.3	1.69872
$n_{C'}$	643.8	1.69955
$n_{632.8}$	632.8	1.70033
n_D	589.3	1.70384
n_d	587.6	1.70400
n_e	546.1	1.70824
n_F	486.1	1.71659
$n_{F'}$	480.0	1.71765
n_g	435.8	1.72690
n_h	404.7	1.73581
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	1.655542680
B_2	0.171319770
B_3	1.336644480
C_1	0.010448564
C_2	0.0499394756
C_3	118.96147200

Constants of Formula for dn/dT

D_0	1.60E-06
D_1	1.02E-08
D_2	-2.68E-11
E_0	7.87E-07
E_1	9.65E-10
λ_{TK} [μm]	0.229

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	2.8	4.1	5.5	0.6	1.8	3.1
+20/+40	2.8	4.3	5.9	1.4	2.8	4.4
+60/+80	2.9	4.5	6.3	1.8	3.4	5.1

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.730	0.450
2325	0.850	0.670
1970	0.959	0.900
1530	0.988	0.970
1060	0.994	0.985
700	0.988	0.970
660	0.982	0.955
620	0.979	0.950
580	0.979	0.950
546	0.980	0.950
500	0.976	0.940
460	0.967	0.920
436	0.959	0.900
420	0.950	0.880
405	0.930	0.840
400	0.920	0.820
390	0.890	0.750
380	0.820	0.610
370	0.670	0.370
365	0.550	0.220
350	0.090	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 40/35

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2408
$P_{C,s}$	0.4979
$P_{d,C}$	0.2956
$P_{e,d}$	0.2372
$P_{g,F}$	0.5769
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2377
$P'_{C,s}$	0.5375
$P'_{d,C'}$	0.2459
$P'_{e,d}$	0.2342
$P'_{g,F'}$	0.5110
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0069
$\Delta P_{C,s}$	0.0032
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0006
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	3.2
AR	1.2
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.7
T_g [°C]	582
T_{10}^{13} [°C]	585
$T_{10}^{7.6}$ [°C]	712
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.20
E [10^3 N/mm ²]	105
μ	0.264
K [10^{-6} mm ² /N]	2.38
$HK_{0.1/20}$	650
HG	4

N-LAF2 744449.430

$n_d = 1.74397$
 $n_e = 1.74791$

$v_d = 44.85$
 $v_e = 44.57$

$n_F - n_C = 0.016588$
 $n_{F'} - n_{C'} = 0.016780$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.70582
$n_{1970.1}$	1970.1	1.71169
$n_{1529.6}$	1529.6	1.71816
$n_{1060.0}$	1060.0	1.72563
n_t	1014.0	1.72656
n_s	852.1	1.73064
n_r	706.5	1.73627
n_C	656.3	1.73903
$n_{C'}$	643.8	1.73981
$n_{632.8}$	632.8	1.74054
n_D	589.3	1.74383
n_d	587.6	1.74397
n_e	546.1	1.74791
n_F	486.1	1.75562
$n_{F'}$	480.0	1.75659
n_g	435.8	1.76500
n_h	404.7	1.77298
n_i	365.0	1.78703
$n_{334.1}$	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	1.809842270
B_2	0.157295550
B_3	1.093003700
C_1	0.010171162
C_2	0.0442431765
C_3	100.68774800

Constants of Formula for dn/dT

D_0	-3.64E-06
D_1	9.20E-09
D_2	-6.00E-12
E_0	6.43E-07
E_1	6.11E-10
λ_{TK} [μm]	0.220

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	0.0	1.0	2.1	-2.3	-1.3	-0.3
+20/+40	-0.1	1.0	2.3	-1.6	-0.5	0.7
+60/+80	-0.1	1.2	2.5	-1.2	0.0	1.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.400
2325	0.860	0.690
1970	0.951	0.880
1530	0.994	0.985
1060	0.999	0.997
700	0.998	0.996
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.998	0.994
500	0.993	0.983
460	0.985	0.962
436	0.976	0.940
420	0.965	0.920
405	0.940	0.870
400	0.930	0.840
390	0.900	0.760
380	0.830	0.630
370	0.710	0.430
365	0.630	0.310
350	0.230	0.030
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 40/34

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2459
$P_{C,s}$	0.5057
$P_{d,C}$	0.2979
$P_{e,d}$	0.2377
$P_{g,F}$	0.5656
$P_{i,h}$	0.8470

Relative Partial Dispersion P'

$P'_{s,t}$	0.2431
$P'_{C,s}$	0.5464
$P'_{d,C'}$	0.2481
$P'_{e,d}$	0.2350
$P'_{g,F'}$	0.5012
$P'_{i,h}$	0.8373

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0061
$\Delta P_{C,s}$	-0.0017
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0027
$\Delta P_{i,g}$	-0.0202

Chemical Properties

CR	2
FR	3
SR	52.2
AR	1
PR	2.2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	9.1
T_g [°C]	653
T_{10}^{13} [°C]	645
$T_{10}^{7.6}$ [°C]	734
c_p [J/(g·K)]	0.510
λ [W/(m·K)]	0.670
ρ [g/cm ³]	4.30
E [10^3 N/mm ²]	94
μ	0.288
K [10^{-6} mm ² /N]	1.42
$HK_{0.1/20}$	530
HG	6

N-LAF7 749348.373

$n_d = 1.74950$

$v_d = 34.82$

$n_F - n_C = 0.021525$

$n_e = 1.75459$

$v_e = 34.56$

$n_F - n_C = 0.021833$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.70344
$n_{1970.1}$	1970.1	1.71021
$n_{1529.6}$	1529.6	1.71772
$n_{1060.0}$	1060.0	1.72659
n_t	1014.0	1.72773
n_s	852.1	1.73272
n_r	706.5	1.73972
n_C	656.3	1.74320
$n_{C'}$	643.8	1.74419
$n_{632.8}$	632.8	1.74511
n_D	589.3	1.74931
n_d	587.6	1.74950
n_e	546.1	1.75459
n_F	486.1	1.76472
$n_{F'}$	480.0	1.76602
n_g	435.8	1.77741
n_h	404.7	1.78854
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	1.740287640
B_2	0.226710554
B_3	1.325255480
C_1	0.010792558
C_2	0.0538626639
C_3	106.26866500

Constants of Formula for dn/dT

D_0	9.21E-07
D_1	1.10E-08
D_2	-1.75E-11
E_0	7.67E-07
E_1	1.10E-09
λ_{TK} [μm]	0.264

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	2.5	3.9	5.6	0.2	1.5	3.1
+20/+40	2.6	4.3	6.3	1.1	2.7	4.7
+60/+80	2.7	4.6	6.8	1.6	3.4	5.6

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.670	0.370
2325	0.860	0.680
1970	0.969	0.920
1530	0.995	0.987
1060	0.998	0.996
700	0.997	0.993
660	0.997	0.992
620	0.997	0.992
580	0.996	0.990
546	0.994	0.985
500	0.988	0.971
460	0.977	0.940
436	0.965	0.910
420	0.950	0.870
405	0.920	0.810
400	0.910	0.780
390	0.860	0.680
380	0.770	0.520
370	0.570	0.250
365	0.380	0.090
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 41/36

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2317
$P_{C,s}$	0.4870
$P_{d,C}$	0.2928
$P_{e,d}$	0.2366
$P_{g,F}$	0.5894
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2284
$P'_{C,s}$	0.5254
$P'_{d,C'}$	0.2434
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5218
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0029
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0042
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	2
SR	51.3
AR	1.2
PR	1.2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.4
T_g [°C]	568
T_{10}^{13} [°C]	563
$T_{10}^{7.6}$ [°C]	669
c_p [J/(g·K)]	0.620
λ [W/(m·K)]	0.830
ρ [g/cm ³]	3.73
E [10^3 N/mm ²]	96
μ	0.271
K [10^{-6} mm ² /N]	2.57
$HK_{0.1/20}$	530
HG	5

N-LAF21 788475.428

$n_d = 1.78800$
 $n_e = 1.79195$

$v_d = 47.49$
 $v_e = 47.25$

$n_F - n_C = 0.016593$
 $n_F - n_C = 0.016761$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.74419
$n_{1970.1}$	1970.1	1.75191
$n_{1529.6}$	1529.6	1.76014
$n_{1060.0}$	1060.0	1.76892
n_t	1014.0	1.76995
n_s	852.1	1.77434
n_r	706.5	1.78019
n_C	656.3	1.78301
$n_{C'}$	643.8	1.78380
$n_{632.8}$	632.8	1.78454
n_D	589.3	1.78785
n_d	587.6	1.78800
n_e	546.1	1.79195
n_F	486.1	1.79960
$n_{F'}$	480.0	1.80056
n_g	435.8	1.80882
n_h	404.7	1.81657
n_i	365.0	1.83002
$n_{334.1}$	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	1.871345290
B_2	0.250783010
B_3	1.220486390
C_1	0.009333223
C_2	0.0345637762
C_3	83.24048660

Constants of Formula for dn/dT

D_0	3.11E-06
D_1	1.13E-08
D_2	-2.07E-11
E_0	5.88E-07
E_1	6.32E-10
λ_{TK} [μm]	0.199

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	3.8	4.8	5.8	1.4	2.4	3.3
+20/+40	3.9	5.1	6.2	2.3	3.5	4.6
+60/+80	4.0	5.3	6.5	2.8	4.1	5.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.430	0.120
2325	0.710	0.430
1970	0.940	0.860
1530	0.988	0.971
1060	0.998	0.996
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.997	0.992
546	0.997	0.993
500	0.996	0.989
460	0.990	0.976
436	0.985	0.964
420	0.981	0.952
405	0.971	0.930
400	0.966	0.920
390	0.950	0.880
380	0.920	0.810
370	0.870	0.710
365	0.830	0.630
350	0.640	0.330
334	0.280	0.040
320	0.030	0.000
310	0.000	
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 39/32

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2646
$P_{C,s}$	0.5222
$P_{d,C}$	0.3009
$P_{e,d}$	0.2380
$P_{g,F}$	0.5555
$P_{i,h}$	0.8106

Relative Partial Dispersion P'

$P'_{s,t}$	0.2619
$P'_{C,s}$	0.5641
$P'_{d,C'}$	0.2507
$P'_{e,d}$	0.2356
$P'_{g,F'}$	0.4927
$P'_{i,h}$	0.8025

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0165
$\Delta P_{C,s}$	0.0086
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	-0.0481

Chemical Properties

CR	1
FR	1
SR	51.3
AR	1
PR	1.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.1
T_g [°C]	653
T_{10}^{13} [°C]	659
$T_{10}^{7.6}$ [°C]	729
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.830
ρ [g/cm ³]	4.28
E [10^3 N/mm ²]	124
μ	0.295
K [10^{-6} mm ² /N]	1.46
$HK_{0.1/20}$	730
HG	2

N-LAF33 786441.436

$n_d = 1.78582$
 $n_e = 1.79007$

$v_d = 44.05$
 $v_e = 43.80$

$n_F - n_C = 0.017839$
 $n_{F'} - n_{C'} = 0.018038$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.74262
$n_{1970.1}$	1970.1	1.74968
$n_{1529.6}$	1529.6	1.75732
$n_{1060.0}$	1060.0	1.76584
n_t	1014.0	1.76689
n_s	852.1	1.77138
n_r	706.5	1.77751
n_C	656.3	1.78049
$n_{C'}$	643.8	1.78134
$n_{632.8}$	632.8	1.78213
n_D	589.3	1.78567
n_d	587.6	1.78582
n_e	546.1	1.79007
n_F	486.1	1.79833
$n_{F'}$	480.0	1.79937
n_g	435.8	1.80837
n_h	404.7	1.81687
n_i	365.0	1.83175
$n_{334.1}$	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	1.796534170
B_2	0.311577903
B_3	1.159818630
C_1	0.009273135
C_2	0.0358201181
C_3	87.34487120

Constants of Formula for dn/dT

D_0	8.17E-06
D_1	1.24E-08
D_2	-1.65E-11
E_0	7.11E-07
E_1	8.59E-10
λ_{TK} [μm]	0.210

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	6.8	8.1	9.4	4.4	5.7	7.0
+20/+40	7.0	8.5	10.0	5.5	6.9	8.4
+60/+80	7.2	8.9	10.5	6.0	7.6	9.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.470	0.150
2325	0.740	0.480
1970	0.950	0.870
1530	0.990	0.974
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.995
620	0.998	0.994
580	0.998	0.994
546	0.998	0.994
500	0.995	0.988
460	0.989	0.973
436	0.983	0.959
420	0.978	0.950
405	0.968	0.920
400	0.963	0.910
390	0.950	0.870
380	0.920	0.810
370	0.870	0.710
365	0.840	0.650
350	0.690	0.400
334	0.380	0.090
320	0.080	0.000
310	0.000	0.000
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 39/32

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2520
$P_{C,s}$	0.5107
$P_{d,C}$	0.2988
$P_{e,d}$	0.2378
$P_{g,F}$	0.5626
$P_{i,h}$	0.8339

Relative Partial Dispersion P'

$P'_{s,t}$	0.2492
$P'_{C,s}$	0.5518
$P'_{d,C'}$	0.2488
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4987
$P'_{i,h}$	0.8247

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0088
$\Delta P_{C,s}$	0.0052
$\Delta P_{F,e}$	-0.0018
$\Delta P_{g,F}$	-0.0071
$\Delta P_{i,g}$	-0.0443

Chemical Properties

CR	1
FR	2
SR	52.2
AR	1
PR	3
SR-J	6
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	6.7
T_g [°C]	600
T_{10}^{13} [°C]	585
$T_{10}^{7.6}$ [°C]	673
c_p [J/(g·K)]	0.570
λ [W/(m·K)]	0.800
AT [°C]	628
ρ [g/cm ³]	4.36
E [10^3 N/mm ²]	111
μ	0.301
K [10^{-6} mm ² /N]	2.21
HK _{0.1/20}	730
HG	1
Abrasion Aa	67

N-LAF34 773496.424

$n_d = 1.77250$

$v_d = 49.62$

$n_F - n_C = 0.015568$

$n_e = 1.77621$

$v_e = 49.38$

$n_F - n_C = 0.015719$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.73085
$n_{1970.1}$	1970.1	1.73824
$n_{1529.6}$	1529.6	1.74610
$n_{1060.0}$	1060.0	1.75447
n_t	1014.0	1.75546
n_s	852.1	1.75962
n_r	706.5	1.76515
n_C	656.3	1.76780
$n_{C'}$	643.8	1.76855
$n_{632.8}$	632.8	1.76924
n_D	589.3	1.77236
n_d	587.6	1.77250
n_e	546.1	1.77621
n_F	486.1	1.78337
$n_{F'}$	480.0	1.78427
n_g	435.8	1.79196
n_h	404.7	1.79915
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	1.758369580
B_2	0.313537785
B_3	1.189252310
C_1	0.008728100
C_2	0.0293020832
C_3	85.17806440

Constants of Formula for dn/dT

D_0	3.89E-06
D_1	1.02E-08
D_2	-1.91E-11
E_0	5.88E-07
E_1	7.57E-10
λ_{TK} [μm]	0.181

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	4.2	5.2	6.2	1.9	2.8	3.7
+20/+40	4.3	5.4	6.5	2.7	3.9	4.9
+60/+80	4.4	5.6	6.8	3.2	4.4	5.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.450	0.140
2325	0.730	0.450
1970	0.950	0.870
1530	0.989	0.973
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.996
620	0.998	0.995
580	0.998	0.995
546	0.998	0.996
500	0.997	0.993
460	0.994	0.986
436	0.991	0.978
420	0.988	0.971
405	0.983	0.958
400	0.980	0.950
390	0.971	0.930
380	0.955	0.890
370	0.930	0.830
365	0.910	0.790
350	0.820	0.600
334	0.640	0.330
320	0.420	0.120
310	0.240	0.030
300	0.070	0.000
290	0.000	
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 38/30

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2674
$P_{C,s}$	0.5256
$P_{d,C}$	0.3018
$P_{e,d}$	0.2382
$P_{g,F}$	0.5518
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2648
$P'_{C,s}$	0.5679
$P'_{d,C'}$	0.2515
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4895
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0126
$\Delta P_{C,s}$	0.0070
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	1
SR	51.3
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.0
T_g [°C]	668
T_{10}^{13} [°C]	659
$T_{10}^{7.6}$ [°C]	745
c_p [J/(g·K)]	0.560
λ [W/(m·K)]	0.800
ρ [g/cm ³]	4.24
E [10^3 N/mm ²]	123
μ	0.292
K [10^{-6} mm ² /N]	1.44
$HK_{0.1/20}$	770
HG	2

P-LAF37 755457.399

$n_d = 1.75550$

$v_d = 45.66$

$n_F - n_C = 0.016546$

$n_e = 1.75944$

$v_e = 45.42$

$n_F - n_C = 0.016722$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.71338
$n_{1970.1}$	1970.1	1.72058
$n_{1529.6}$	1529.6	1.72830
$n_{1060.0}$	1060.0	1.73669
n_t	1014.0	1.73770
n_s	852.1	1.74198
n_r	706.5	1.74775
n_C	656.3	1.75054
$n_{C'}$	643.8	1.75132
$n_{632.8}$	632.8	1.75206
n_D	589.3	1.75535
n_d	587.6	1.75550
n_e	546.1	1.75944
n_F	486.1	1.76708
$n_{F'}$	480.0	1.76804
n_g	435.8	1.77633
n_h	404.7	1.78414
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	1.760032440
B_2	0.248286745
B_3	1.159351220
C_1	0.009380064
C_2	0.0360537464
C_3	86.43246930

Constants of Formula for dn/dT

D_0	7.03E-06
D_1	1.15E-08
D_2	7.48E-13
E_0	7.25E-07
E_1	8.36E-10
λ_{TK} [μm]	0.206

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	6.1	7.4	8.7	3.8	5.0	6.2
+20/+40	6.1	7.6	9.0	4.6	6.1	7.5
+60/+80	6.4	8.0	9.5	5.2	6.8	8.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.56	0.23
2325	0.81	0.60
1970	0.968	0.92
1530	0.997	0.991
1060	0.999	0.998
700	0.999	0.997
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	0.993	0.982
436	0.989	0.973
420	0.986	0.965
405	0.979	0.95
400	0.976	0.94
390	0.965	0.91
380	0.94	0.86
370	0.90	0.78
365	0.87	0.71
350	0.73	0.45
334	0.46	0.15
320	0.18	0.01
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 37/31

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2591
$P_{C,s}$	0.5170
$P_{d,C}$	0.2999
$P_{e,d}$	0.2379
$P_{g,F}$	0.5590
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2563
$P'_{C,s}$	0.5585
$P'_{d,C'}$	0.2498
$P'_{e,d}$	0.2354
$P'_{g,F'}$	0.4957
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0145
$\Delta P_{C,s}$	0.0077
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0080
$\Delta P_{i,g}$	

Chemical Properties

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

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.8
T_g [°C]	506
T_{10}^{13} [°C]	510
$T_{10}^{7.6}$ [°C]	593
c_p [J/(g*K)]	0.640
λ [W/(m*K)]	0.900
AT [°C]	546
ρ [g/cm ³]	3.99
E [10^3 N/mm ²]	115
μ	0.296
K [10^{-6} mm ² /N]	2.26
HK _{0.1/20}	697
Abrasion Aa	67

LASF35 022291.541

$n_d = 2.02204$

$v_d = 29.06$

$n_F - n_C = 0.035170$

$n_e = 2.03035$

$v_e = 28.84$

$n_F - n_C = 0.035721$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.95946
$n_{1970.1}$	1970.1	1.96639
$n_{1529.6}$	1529.6	1.97472
$n_{1060.0}$	1060.0	1.98624
n_t	1014.0	1.98786
n_s	852.1	1.99531
n_r	706.5	2.00628
n_C	656.3	2.01185
$n_{C'}$	643.8	2.01343
$n_{632.8}$	632.8	2.01493
n_D	589.3	2.02173
n_d	587.6	2.02204
n_e	546.1	2.03035
n_F	486.1	2.04702
$n_{F'}$	480.0	2.04916
n_g	435.8	2.06805
n_h	404.7	2.08663
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	2.455058610
B_2	0.453006077
B_3	2.385130800
C_1	0.013567040
C_2	0.0545803020
C_3	167.90471500

Constants of Formula for dn/dT

D_0	1.43E-07
D_1	8.71E-09
D_2	-2.71E-11
E_0	1.02E-06
E_1	1.50E-09
λ_{TK} [μm]	0.263

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	5.0	7.8	-0.1	2.2	5.0
+20/+40	2.7	5.5	9.0	1.0	3.8	7.1
+60/+80	2.8	5.9	9.7	1.4	4.5	8.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.790	0.550
2325	0.880	0.720
1970	0.973	0.930
1530	0.995	0.987
1060	0.998	0.994
700	0.992	0.981
660	0.990	0.974
620	0.987	0.969
580	0.985	0.962
546	0.977	0.940
500	0.950	0.870
460	0.900	0.770
436	0.850	0.670
420	0.790	0.550
405	0.690	0.390
400	0.630	0.320
390	0.500	0.180
380	0.300	0.050
370	0.100	0.000
365	0.030	
350	0.000	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 45/37

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2118
$P_{C,s}$	0.4701
$P_{d,C}$	0.2899
$P_{e,d}$	0.2364
$P_{g,F}$	0.5982
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2086
$P'_{C,s}$	0.5073
$P'_{d,C'}$	0.2409
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5291
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0009
$\Delta P_{C,s}$	-0.0006
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0033
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1.3
AR	1
PR	1.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.5
T_g [°C]	774
T_{10}^{13} [°C]	
$T_{10}^{7.6}$ [°C]	
c_p [J/(g·K)]	0.445
λ [W/(m·K)]	0.920
ρ [g/cm ³]	5.41
E [10^3 N/mm ²]	132
μ	0.303
K [10^{-6} mm ² /N]	0.73
$HK_{0.1/20}$	810
HG	1

N-LASF9 850322.441

$n_d = 1.85025$
 $n_e = 1.85650$

$v_d = 32.17$
 $v_e = 31.93$

$n_F - n_C = 0.026430$
 $n_{F'} - n_{C'} = 0.026827$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.80058
$n_{1970.1}$	1970.1	1.80659
$n_{1529.6}$	1529.6	1.81364
$n_{1060.0}$	1060.0	1.82293
n_t	1014.0	1.82420
n_s	852.1	1.82997
n_r	706.5	1.83834
n_C	656.3	1.84255
$n_{C'}$	643.8	1.84376
$n_{632.8}$	632.8	1.84489
n_D	589.3	1.85002
n_d	587.6	1.85025
n_e	546.1	1.85650
n_F	486.1	1.86898
$n_{F'}$	480.0	1.87058
n_g	435.8	1.88467
n_h	404.7	1.89845
n_i	365.0	365.0
$n_{334.1}$	334.1	334.1
$n_{312.6}$	312.6	312.6
$n_{296.7}$	296.7	296.7
$n_{280.4}$	280.4	280.4
$n_{248.3}$	248.3	248.3

Constants of Dispersion Formula

B_1	2.000295470
B_2	0.298926886
B_3	1.806918430
C_1	0.012142602
C_2	0.0538736236
C_3	156.53082900

Constants of Formula for dn/dT

D_0	1.05E-06
D_1	1.02E-08
D_2	-2.38E-11
E_0	9.19E-07
E_1	1.18E-09
λ_{TK} [μm]	0.257

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	2.8	4.7	6.9	0.4	2.2	4.3
+20/+40	2.9	5.1	7.7	1.4	3.5	6.0
+60/+80	3.1	5.5	8.2	1.8	4.2	6.9

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.810	0.600
2325	0.870	0.710
1970	0.967	0.920
1530	0.994	0.986
1060	0.998	0.994
700	0.994	0.986
660	0.992	0.981
620	0.992	0.979
580	0.991	0.978
546	0.989	0.972
500	0.978	0.950
460	0.958	0.900
436	0.930	0.840
420	0.900	0.770
405	0.830	0.630
400	0.800	0.570
390	0.690	0.400
380	0.530	0.200
370	0.270	0.040
365	0.140	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 41/36

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2181
$P_{C,s}$	0.4762
$P_{d,C}$	0.2912
$P_{e,d}$	0.2366
$P_{g,F}$	0.5934
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2149
$P'_{C,s}$	0.5140
$P'_{d,C'}$	0.2420
$P'_{e,d}$	0.2330
$P'_{g,F'}$	0.5250
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line	
$\Delta P_{C,t}$	-0.0032
$\Delta P_{C,s}$	-0.0016
$\Delta P_{F,e}$	0.0008
$\Delta P_{g,F}$	0.0037
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	2
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.4
T_g [°C]	683
T_{10}^{13} [°C]	700
$T_{10}^{7.6}$ [°C]	817
c_p [J/(g·K)]	0.530
λ [W/(m·K)]	0.790
ρ [g/cm ³]	4.41
E [10^3 N/mm ²]	109
μ	0.288
K [10^{-6} mm ² /N]	1.72
$HK_{0.1/20}$	515
HG	4
Abrasion Aa	120

N-LASF9HT 850322.441

$n_d = 1.85025$
 $n_e = 1.85650$

$v_d = 32.17$
 $v_e = 31.93$

$n_F - n_C = 0.026430$
 $n_{F'} - n_{C'} = 0.026827$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.80058
$n_{1970.1}$	1970.1	1.80659
$n_{1529.6}$	1529.6	1.81364
$n_{1060.0}$	1060.0	1.82293
n_t	1014.0	1.82420
n_s	852.1	1.82997
n_r	706.5	1.83834
n_C	656.3	1.84255
$n_{C'}$	643.8	1.84376
$n_{632.8}$	632.8	1.84489
n_D	589.3	1.85002
n_d	587.6	1.85025
n_e	546.1	1.85650
n_F	486.1	1.86898
$n_{F'}$	480.0	1.87058
n_g	435.8	1.88467
n_h	404.7	1.89845
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	2.000295470
B_2	0.298926886
B_3	1.806918430
C_1	0.012142602
C_2	0.0538736236
C_3	156.53082900

Constants of Formula for dn/dT

D_0	1.05E-06
D_1	1.02E-08
D_2	-2.38E-11
E_0	9.19E-07
E_1	1.18E-09
λ_{TK} [μm]	0.257

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	2.8	4.7	6.9	0.4	2.2	4.3
+20/+40	2.9	5.1	7.7	1.4	3.5	6.0
+60/+80	3.1	5.5	8.2	1.8	4.2	6.9

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.810	0.600
2325	0.870	0.710
1970	0.967	0.920
1530	0.994	0.986
1060	0.998	0.994
700	0.994	0.986
660	0.992	0.981
620	0.992	0.979
580	0.991	0.978
546	0.989	0.972
500	0.978	0.950
460	0.958	0.900
436	0.940	0.860
420	0.920	0.800
405	0.870	0.700
400	0.840	0.650
390	0.770	0.510
380	0.630	0.310
370	0.390	0.100
365	0.250	0.030
350	0.010	0.000
334	0.000	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 40/36

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2181
$P_{C,s}$	0.4762
$P_{d,C}$	0.2912
$P_{e,d}$	0.2366
$P_{g,F}$	0.5934
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2149
$P'_{C,s}$	0.5140
$P'_{d,C'}$	0.2420
$P'_{e,d}$	0.2330
$P'_{g,F'}$	0.5250
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0032
$\Delta P_{C,s}$	-0.0016
$\Delta P_{F,e}$	0.0008
$\Delta P_{g,F}$	0.0037
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	2
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.4
T_g [°C]	683
T_{10}^{13} [°C]	700
$T_{10}^{7.6}$ [°C]	817
c_p [J/(g·K)]	0.530
λ [W/(m·K)]	0.790
ρ [g/cm ³]	4.41
E [10^3 N/mm ²]	109
μ	0.288
K [10^{-6} mm ² /N]	1.72
$HK_{0.1/20}$	515
HG	4

N-LASF31A 883408.551

$n_d = 1.88300$

$v_d = 40.76$

$n_F - n_C = 0.021663$

$n_e = 1.88815$

$v_e = 40.52$

$n_{F'} - n_{C'} = 0.021921$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.83590
$n_{1970.1}$	1970.1	1.84267
$n_{1529.6}$	1529.6	1.85026
$n_{1060.0}$	1060.0	1.85937
n_t	1014.0	1.86054
n_s	852.1	1.86572
n_r	706.5	1.87298
n_C	656.3	1.87656
$n_{C'}$	643.8	1.87757
$n_{632.8}$	632.8	1.87853
n_D	589.3	1.88281
n_d	587.6	1.88300
n_e	546.1	1.88815
n_F	486.1	1.89822
$n_{F'}$	480.0	1.89950
n_g	435.8	1.91050
n_h	404.7	1.92093
n_i	365.0	1.93920
$n_{334.1}$	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	1.964850750
B_2	0.475231259
B_3	1.483601090
C_1	0.009820602
C_2	0.0344713438
C_3	110.73986300

Constants of Formula for dn/dT

D_0	1.67E-06
D_1	8.90E-09
D_2	-8.73E-12
E_0	7.47E-07
E_1	7.46E-10
λ_{TK} [μm]	0.207

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	3.4	4.8	6.3	0.9	2.3	3.7
+20/+40	3.3	4.9	6.6	1.7	3.3	4.9
+60/+80	3.4	5.2	6.9	2.2	3.9	5.6

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.640	0.320
2325	0.820	0.620
1970	0.963	0.910
1530	0.993	0.983
1060	0.998	0.995
700	0.997	0.992
660	0.996	0.991
620	0.996	0.990
580	0.996	0.990
546	0.996	0.990
500	0.991	0.978
460	0.980	0.950
436	0.970	0.930
420	0.960	0.900
405	0.940	0.860
400	0.930	0.840
390	0.910	0.780
380	0.860	0.690
370	0.780	0.540
365	0.730	0.450
350	0.490	0.170
334	0.130	0.010
320	0.060	0.000
310	0.000	
300	0.000	
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 38/33

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2391
$P_{C,s}$	0.5004
$P_{d,C}$	0.2972
$P_{e,d}$	0.2377
$P_{g,F}$	0.5667
$P_{i,h}$	0.8436

Relative Partial Dispersion P'

$P'_{s,t}$	0.2363
$P'_{C,s}$	0.5407
$P'_{d,C'}$	0.2475
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5021
$P'_{i,h}$	0.8337

Deviation of Rel. Partial Disp.

ΔP from the normal line	
$\Delta P_{C,t}$	0.0012
$\Delta P_{C,s}$	0.0025
$\Delta P_{F,e}$	-0.0019
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	-0.0575

Chemical Properties

CR	1
FR	0
SR	2.3
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.7
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.7
T_g [°C]	719
T_{10}^{13} [°C]	720
$T_{10}^{7.6}$ [°C]	830
c_p [J/(g·K)]	0.440
λ [W/(m·K)]	0.790
ρ [g/cm ³]	5.51
E [10^3 N/mm ²]	126
μ	0.301
K [10^{-6} mm ² /N]	1.18
$HK_{0.1/20}$	650
HG	2

N-LASF40 834373.443

$n_d = 1.83404$

$v_d = 37.30$

$n_F - n_C = 0.022363$

$n_e = 1.83935$

$v_e = 37.04$

$n_F - n_C = 0.022658$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.78600
$n_{1970.1}$	1970.1	1.79298
$n_{1529.6}$	1529.6	1.80074
$n_{1060.0}$	1060.0	1.80999
n_t	1014.0	1.81118
n_s	852.1	1.81643
n_r	706.5	1.82380
n_C	656.3	1.82745
$n_{C'}$	643.8	1.82849
$n_{632.8}$	632.8	1.82946
n_D	589.3	1.83385
n_d	587.6	1.83404
n_e	546.1	1.83935
n_F	486.1	1.84981
$n_{F'}$	480.0	1.85114
n_g	435.8	1.86275
n_h	404.7	1.87393
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	1.985503310
B_2	0.274057042
B_3	1.289456610
C_1	0.010958331
C_2	0.0474551603
C_3	96.90852860

Constants of Formula for dn/dT

D_0	8.10E-06
D_1	1.25E-08
D_2	-1.73E-11
E_0	8.27E-07
E_1	1.08E-09
λ_{TK} [μm]	0.238

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	7.1	8.8	10.6	4.6	6.3	8.0
+20/+40	7.3	9.3	11.4	5.7	7.7	9.8
+60/+80	7.6	9.7	12.0	6.3	8.5	10.8

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.570	0.240
2325	0.810	0.590
1970	0.963	0.910
1530	0.993	0.982
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.994
620	0.997	0.993
580	0.997	0.992
546	0.995	0.988
500	0.987	0.969
460	0.973	0.930
436	0.954	0.890
420	0.940	0.850
405	0.910	0.780
400	0.890	0.750
390	0.840	0.650
380	0.760	0.510
370	0.600	0.280
365	0.470	0.150
350	0.040	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 39/35

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2346
$P_{C,s}$	0.4929
$P_{d,C}$	0.2948
$P_{e,d}$	0.2371
$P_{g,F}$	0.5786
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2315
$P'_{C,s}$	0.5321
$P'_{d,C'}$	0.2453
$P'_{e,d}$	0.2340
$P'_{g,F'}$	0.5124
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0055
$\Delta P_{C,s}$	0.0030
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	1
SR	51.2
AR	1
PR	1.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	6.9
T_g [°C]	590
T_{10}^{13} [°C]	591
$T_{10}^{7.6}$ [°C]	677
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.810
ρ [g/cm ³]	4.43
E [10^3 N/mm ²]	111
μ	0.304
K [10^{-6} mm ² /N]	2.19
$HK_{0.1/20}$	580
HG	1

N-LASF41 835431.485

$n_d = 1.83501$

$v_d = 43.13$

$n_F - n_C = 0.019361$

$n_e = 1.83961$

$v_e = 42.88$

$n_F - n_C = 0.019578$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.78859
$n_{1970.1}$	1970.1	1.79608
$n_{1529.6}$	1529.6	1.80423
$n_{1060.0}$	1060.0	1.81338
n_t	1014.0	1.81450
n_s	852.1	1.81936
n_r	706.5	1.82599
n_C	656.3	1.82923
$n_{C'}$	643.8	1.83014
$n_{632.8}$	632.8	1.83100
n_D	589.3	1.83484
n_d	587.6	1.83501
n_e	546.1	1.83961
n_F	486.1	1.84859
$n_{F'}$	480.0	1.84972
n_g	435.8	1.85949
n_h	404.7	1.86872
n_i	365.0	1.88486
$n_{334.1}$	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	1.863483310
B_2	0.413307255
B_3	1.357848150
C_1	0.009103682
C_2	0.0339247268
C_3	93.35805950

Constants of Formula for dn/dT

D_0	3.03E-06
D_1	1.04E-08
D_2	-1.30E-11
E_0	6.62E-07
E_1	7.82E-10
λ_{TK} [μm]	0.209

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	4.0	5.2	6.4	1.5	2.7	3.9
+20/+40	4.0	5.4	6.8	2.4	3.8	5.2
+60/+80	4.2	5.7	7.2	2.9	4.5	6.0

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.480	0.160
2325	0.760	0.510
1970	0.950	0.880
1530	0.993	0.983
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.997	0.993
500	0.994	0.984
460	0.985	0.962
436	0.976	0.940
420	0.967	0.920
405	0.954	0.890
400	0.950	0.880
390	0.930	0.830
380	0.890	0.750
370	0.830	0.630
365	0.790	0.550
350	0.590	0.270
334	0.290	0.040
320	0.040	
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 37/32

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2508
$P_{C,s}$	0.5098
$P_{d,C}$	0.2986
$P_{e,d}$	0.2378
$P_{g,F}$	0.5629
$P_{i,h}$	0.8338

Relative Partial Dispersion P'

$P'_{s,t}$	0.2480
$P'_{C,s}$	0.5507
$P'_{d,C'}$	0.2487
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4989
$P'_{i,h}$	0.8245

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0110
$\Delta P_{C,s}$	0.0063
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0083
$\Delta P_{i,g}$	-0.0520

Chemical Properties

CR	1
FR	1
SR	4
AR	1
PR	1

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]	651
T_{10}^{13} [°C]	658
$T_{10}^{7.6}$ [°C]	739
c_p [J/(g·K)]	0.490
λ [W/(m·K)]	0.790
ρ [g/cm ³]	4.85
E [10^3 N/mm ²]	124
μ	0.294
K [10^{-6} mm ² /N]	1.57
$HK_{0.1/20}$	760
HG	2

N-LASF43 806406.426

$n_d = 1.80610$

$v_d = 40.61$

$n_F - n_C = 0.019850$

$n_e = 1.81081$

$v_e = 40.36$

$n_F - n_C = 0.020089$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.75901
$n_{1970.1}$	1970.1	1.76662
$n_{1529.6}$	1529.6	1.77488
$n_{1060.0}$	1060.0	1.78413
n_t	1014.0	1.78527
n_s	852.1	1.79018
n_r	706.5	1.79691
n_C	656.3	1.80020
$n_{C'}$	643.8	1.80113
$n_{632.8}$	632.8	1.80200
n_D	589.3	1.80593
n_d	587.6	1.80610
n_e	546.1	1.81081
n_F	486.1	1.82005
$n_{F'}$	480.0	1.82122
n_g	435.8	1.83137
n_h	404.7	1.84106
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	1.935028270
B_2	0.236629350
B_3	1.262913440
C_1	0.010400141
C_2	0.0447505292
C_3	87.43756900

Constants of Formula for dn/dT

D_0	4.77E-06
D_1	1.14E-08
D_2	-2.68E-12
E_0	6.62E-07
E_1	8.84E-10
λ_{TK} [μm]	0.234

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	6.2	7.6	2.5	3.8	5.0
+20/+40	5.0	6.5	8.1	3.4	4.9	6.4
+60/+80	5.2	6.9	8.6	4.0	5.6	7.4

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.400	0.100
2325	0.710	0.430
1970	0.940	0.850
1530	0.984	0.960
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.997	0.993
580	0.996	0.991
546	0.995	0.988
500	0.990	0.975
460	0.980	0.950
436	0.967	0.920
420	0.954	0.890
405	0.930	0.840
400	0.920	0.810
390	0.880	0.730
380	0.820	0.610
370	0.710	0.420
365	0.620	0.300
350	0.220	0.020
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 42/34

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2476
$P_{C,s}$	0.5049
$P_{d,C}$	0.2972
$P_{e,d}$	0.2374
$P_{g,F}$	0.5703
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2446
$P'_{C,s}$	0.5452
$P'_{d,C'}$	0.2473
$P'_{e,d}$	0.2346
$P'_{g,F'}$	0.5053
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0149
$\Delta P_{C,s}$	0.0073
$\Delta P_{F,e}$	-0.0016
$\Delta P_{g,F}$	-0.0052
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	1
SR	51.3
AR	1
PR	2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	6.7
T_g [°C]	614
T_{10}^{13} [°C]	615
$T_{10}^{7.6}$ [°C]	699
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.810
ρ [g/cm ³]	4.26
E [10^3 N/mm ²]	114
μ	0.290
K [10^{-6} mm ² /N]	1.92
$HK_{0.1/20}$	720
HG	2

N-LASF44 804465.444

$n_d = 1.80420$

$v_d = 46.50$

$n_F - n_C = 0.017294$

$n_e = 1.80832$

$v_e = 46.25$

$n_F - n_C = 0.017476$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.76070
$n_{1970.1}$	1970.1	1.76801
$n_{1529.6}$	1529.6	1.77590
$n_{1060.0}$	1060.0	1.78455
n_t	1014.0	1.78560
n_s	852.1	1.79006
n_r	706.5	1.79609
n_C	656.3	1.79901
$n_{C'}$	643.8	1.79983
$n_{632.8}$	632.8	1.80060
n_D	589.3	1.80405
n_d	587.6	1.80420
n_e	546.1	1.80832
n_F	486.1	1.81630
$n_{F'}$	480.0	1.81731
n_g	435.8	1.82594
n_h	404.7	1.83405
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	1.788971050
B_2	0.386758670
B_3	1.305062430
C_1	0.008725063
C_2	0.0308085023
C_3	92.77438240

Constants of Formula for dn/dT

D_0	3.32E-06
D_1	1.12E-08
D_2	-8.52E-12
E_0	5.88E-07
E_1	7.13E-10
λ_{TK} [μm]	0.209

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	4.0	5.1	6.1	1.6	2.6	3.6
+20/+40	4.0	5.3	6.5	2.5	3.7	4.9
+60/+80	4.2	5.6	6.9	3.0	4.4	5.7

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.470	0.150
2325	0.740	0.470
1970	0.950	0.870
1530	0.990	0.975
1060	0.998	0.995
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	0.996	0.989
460	0.991	0.977
436	0.986	0.965
420	0.980	0.950
405	0.967	0.920
400	0.963	0.910
390	0.950	0.870
380	0.910	0.790
370	0.860	0.690
365	0.820	0.620
350	0.660	0.350
334	0.380	0.090
320	0.150	
310	0.070	
300	0.030	
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 40/31

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2582
$P_{C,s}$	0.5171
$P_{d,C}$	0.3002
$P_{e,d}$	0.2380
$P_{g,F}$	0.5572
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2555
$P'_{C,s}$	0.5588
$P'_{d,C'}$	0.2501
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4941
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0098
$\Delta P_{C,s}$	0.0058
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	1
SR	4
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.4
T_g [°C]	655
T_{10}^{13} [°C]	659
$T_{10}^{7.6}$ [°C]	742
c_p [J/(g·K)]	0.530
λ [W/(m·K)]	0.820
ρ [g/cm ³]	4.44
E [10^3 N/mm ²]	124
μ	0.293
K [10^{-6} mm ² /N]	1.41
$HK_{0.1/20}$	770
HG	2

N-LASF45 801350.363

$n_d = 1.80107$
 $n_e = 1.80650$

$v_d = 34.97$
 $v_e = 34.72$

$n_F - n_C = 0.022905$
 $n_F - n_C = 0.023227$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.75487
$n_{1970.1}$	1970.1	1.76104
$n_{1529.6}$	1529.6	1.76809
$n_{1060.0}$	1060.0	1.77689
n_t	1014.0	1.77805
n_s	852.1	1.78325
n_r	706.5	1.79066
n_C	656.3	1.79436
$n_{C'}$	643.8	1.79541
$n_{632.8}$	632.8	1.79640
n_D	589.3	1.80087
n_d	587.6	1.80107
n_e	546.1	1.80650
n_F	486.1	1.81726
$n_{F'}$	480.0	1.81864
n_g	435.8	1.83068
n_h	404.7	1.84237
n_i	365.0	365.0
$n_{334.1}$	334.1	334.1
$n_{312.6}$	312.6	312.6
$n_{296.7}$	296.7	296.7
$n_{280.4}$	280.4	280.4
$n_{248.3}$	248.3	248.3

Constants of Dispersion Formula

B_1	1.871401980
B_2	0.267777879
B_3	1.730300080
C_1	0.011217192
C_2	0.0505134972
C_3	147.10650500

Constants of Formula for dn/dT

D_0	2.78E-06
D_1	8.73E-09
D_2	-2.65E-11
E_0	8.24E-07
E_1	1.15E-09
λ_{TK} [μm]	0.255

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	3.8	5.4	7.3	1.4	3.0	4.7
+20/+40	3.8	5.7	7.9	2.3	4.1	6.2
+60/+80	3.8	5.9	8.3	2.6	4.7	7.0

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.810	0.580
2325	0.880	0.720
1970	0.972	0.930
1530	0.995	0.988
1060	0.999	0.997
700	0.996	0.990
660	0.995	0.987
620	0.994	0.984
580	0.994	0.986
546	0.993	0.982
500	0.983	0.958
460	0.965	0.920
436	0.950	0.870
420	0.920	0.820
405	0.880	0.720
400	0.860	0.680
390	0.790	0.550
380	0.670	0.370
370	0.480	0.150
365	0.340	0.060
350	0.010	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 44/35

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2268
$P_{C,s}$	0.4849
$P_{d,C}$	0.2930
$P_{e,d}$	0.2368
$P_{g,F}$	0.5859
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2237
$P'_{C,s}$	0.5235
$P'_{d,C'}$	0.2437
$P'_{e,d}$	0.2336
$P'_{g,F'}$	0.5186
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line	
$\Delta P_{C,t}$	0.0009
$\Delta P_{C,s}$	0.0005
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0009
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	3.2
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.6
T_g [°C]	647
T_{10}^{13} [°C]	652
$T_{10}^{7.6}$ [°C]	773
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	1.020
ρ [g/cm ³]	3.63
E [10^3 N/mm ²]	116
μ	0.281
K [10^{-6} mm ² /N]	2.01
$HK_{0.1/20}$	630
HG	3

N-LASF45HT 801350.363

$n_d = 1.80107$
 $n_e = 1.80650$

$v_d = 34.97$
 $v_e = 34.72$

$n_F - n_C = 0.022905$
 $n_F - n_C = 0.023227$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.75487
$n_{1970.1}$	1970.1	1.76104
$n_{1529.6}$	1529.6	1.76809
$n_{1060.0}$	1060.0	1.77689
n_t	1014.0	1.77805
n_s	852.1	1.78325
n_r	706.5	1.79066
n_C	656.3	1.79436
$n_{C'}$	643.8	1.79541
$n_{632.8}$	632.8	1.79640
n_D	589.3	1.80087
n_d	587.6	1.80107
n_e	546.1	1.80650
n_F	486.1	1.81726
$n_{F'}$	480.0	1.81864
n_g	435.8	1.83068
n_h	404.7	1.84237
n_i	365.0	365.0
$n_{334.1}$	334.1	334.1
$n_{312.6}$	312.6	312.6
$n_{296.7}$	296.7	296.7
$n_{280.4}$	280.4	280.4
$n_{248.3}$	248.3	248.3

Constants of Dispersion Formula

B_1	1.871401980
B_2	0.267777879
B_3	1.730300080
C_1	0.011217192
C_2	0.0505134972
C_3	147.10650500

Constants of Formula for dn/dT

D_0	2.78E-06
D_1	8.73E-09
D_2	-2.65E-11
E_0	8.24E-07
E_1	1.15E-09
λ_{TK} [μm]	0.255

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	3.8	5.4	7.3	1.4	3.0	4.7
+20/+40	3.8	5.7	7.9	2.3	4.1	6.2
+60/+80	3.8	5.9	8.3	2.6	4.7	7.0

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.810	0.580
2325	0.880	0.720
1970	0.972	0.930
1530	0.995	0.988
1060	0.999	0.997
700	0.996	0.990
660	0.995	0.987
620	0.994	0.986
580	0.994	0.986
546	0.993	0.983
500	0.985	0.964
460	0.972	0.930
436	0.958	0.900
420	0.940	0.860
405	0.910	0.780
400	0.890	0.740
390	0.830	0.620
380	0.720	0.440
370	0.530	0.200
365	0.400	0.100
350	0.030	0.000
334	0.000	0.000
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 43/35

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2268
$P_{C,s}$	0.4849
$P_{d,C}$	0.2930
$P_{e,d}$	0.2368
$P_{g,F}$	0.5859
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2237
$P'_{C,s}$	0.5235
$P'_{d,C'}$	0.2437
$P'_{e,d}$	0.2336
$P'_{g,F'}$	0.5186
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line	
$\Delta P_{C,t}$	0.0009
$\Delta P_{C,s}$	0.0005
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0009
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	3.2
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.6
T_g [°C]	647
T_{10}^{13} [°C]	652
$T_{10}^{7.6}$ [°C]	773
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	1.020
ρ [g/cm ³]	3.63
E [10^3 N/mm ²]	116
μ	0.281
K [10^{-6} mm ² /N]	2.01
$HK_{0.1/20}$	630
HG	3

N-LASF46A 904313.445

$n_d = 1.90366$
 $n_e = 1.91048$

$v_d = 31.32$
 $v_e = 31.09$

$n_F - n_C = 0.028853$
 $n_{F'} - n_{C'} = 0.029287$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.84576
$n_{1970.1}$	1970.1	1.85364
$n_{1529.6}$	1529.6	1.86255
$n_{1060.0}$	1060.0	1.87353
n_t	1014.0	1.87498
n_s	852.1	1.88143
n_r	706.5	1.89064
n_C	656.3	1.89526
$n_{C'}$	643.8	1.89657
$n_{632.8}$	632.8	1.89781
n_D	589.3	1.90341
n_d	587.6	1.90366
n_e	546.1	1.91048
n_F	486.1	1.92411
$n_{F'}$	480.0	1.92586
n_g	435.8	1.94129
n_h	404.7	1.95645
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	2.167015660
B_2	0.319812761
B_3	1.660044860
C_1	0.012359552
C_2	0.0560610282
C_3	107.04771800

Constants of Formula for dn/dT

D_0	3.53E-06
D_1	1.24E-08
D_2	-1.87E-11
E_0	8.39E-07
E_1	1.04E-09
λ_{TK} [μm]	0.275

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	4.4	6.4	8.8	1.9	3.8	6.1
+20/+40	4.7	7.0	9.8	3.1	5.3	8.1
+60/+80	5.0	7.4	10.5	3.7	6.1	9.2

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.560	0.230
2325	0.790	0.560
1970	0.954	0.890
1530	0.991	0.977
1060	0.999	0.997
700	0.996	0.989
660	0.994	0.985
620	0.993	0.983
580	0.993	0.982
546	0.991	0.978
500	0.980	0.950
460	0.959	0.900
436	0.940	0.850
420	0.910	0.780
405	0.850	0.660
400	0.820	0.600
390	0.710	0.420
380	0.500	0.180
370	0.180	0.010
365	0.050	0.000
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 41/37

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2236
$P_{C,s}$	0.4793
$P_{d,C}$	0.2912
$P_{e,d}$	0.2364
$P_{g,F}$	0.5953
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2203
$P'_{C,s}$	0.5170
$P'_{d,C'}$	0.2420
$P'_{e,d}$	0.2329
$P'_{g,F'}$	0.5268
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0094
$\Delta P_{C,s}$	0.0034
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0042
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	3
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.2
T_g [°C]	638
T_{10}^{13} [°C]	639
$T_{10}^{7.6}$ [°C]	733
c_p [J/(g·K)]	0.540
λ [W/(m·K)]	0.910
ρ [g/cm ³]	4.45
E [10^3 N/mm ²]	124
μ	0.298
K [10^{-6} mm ² /N]	1.64
$HK_{0.1/20}$	666
HG	1
Abrasion Aa	88

N-LASF46B 904313.451

$n_d = 1.90366$

$v_d = 31.32$

$n_F - n_C = 0.028852$

$n_e = 1.91048$

$v_e = 31.09$

$n_F - n_C = 0.029289$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.84657
$n_{1970.1}$	1970.1	1.85418
$n_{1529.6}$	1529.6	1.86283
$n_{1060.0}$	1060.0	1.87362
n_t	1014.0	1.87505
n_s	852.1	1.88146
n_r	706.5	1.89065
n_C	656.3	1.89526
$n_{C'}$	643.8	1.89657
$n_{632.8}$	632.8	1.89781
n_D	589.3	1.90341
n_d	587.6	1.90366
n_e	546.1	1.91048
n_F	486.1	1.92411
$n_{F'}$	480.0	1.92586
n_g	435.8	1.94130
n_h	404.7	1.95647
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	2.179889220
B_2	0.306495184
B_3	1.568824370
C_1	0.012580538
C_2	0.0567191367
C_3	105.31653800

Constants of Formula for dn/dT

D_0	5.98E-06
D_1	1.30E-08
D_2	-3.50E-12
E_0	9.13E-07
E_1	1.24E-09
λ_{TK} [μm]	0.267

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	6.1	8.2	10.7	3.6	5.6	8.1
+20/+40	6.4	8.9	11.8	4.8	7.2	10.1
+60/+80	6.8	9.5	12.7	5.5	8.2	11.4

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.560	0.230
2325	0.790	0.550
1970	0.954	0.890
1530	0.991	0.977
1060	0.998	0.996
700	0.996	0.989
660	0.993	0.983
620	0.992	0.980
580	0.991	0.978
546	0.989	0.972
500	0.977	0.940
460	0.954	0.890
436	0.930	0.840
420	0.900	0.770
405	0.850	0.660
400	0.820	0.600
390	0.710	0.420
380	0.500	0.180
370	0.180	0.010
365	0.050	0.000
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 41/37

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2222
$P_{C,s}$	0.4783
$P_{d,C}$	0.2911
$P_{e,d}$	0.2364
$P_{g,F}$	0.5956
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2189
$P'_{C,s}$	0.5160
$P'_{d,C'}$	0.2419
$P'_{e,d}$	0.2329
$P'_{g,F'}$	0.5270
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0069
$\Delta P_{C,s}$	0.0024
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0045
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	3.3
AR	1
PR	1
SR-J	2
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.1
T_g [°C]	611
T_{10}^{13} [°C]	613
$T_{10}^{7.6}$ [°C]	703
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.880
AT [°C]	649
ρ [g/cm ³]	4.51
E [10 ³ N/mm ²]	121
μ	0.303
K [10 ⁻⁶ mm ² /N]	1.87
HK _{0.1/20}	712
Abrasion Aa	55

N-LASF55 954306.486

$n_d = 1.95380$

$v_d = 30.56$

$n_F - n_C = 0.031211$

$n_e = 1.96118$

$v_e = 30.33$

$n_{F'} - n_{C'} = 0.031688$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.89507
$n_{1970.1}$	1970.1	1.90226
$n_{1529.6}$	1529.6	1.91065
$n_{1060.0}$	1060.0	1.92162
n_t	1014.0	1.92312
n_s	852.1	1.92991
n_r	706.5	1.93976
n_C	656.3	1.94473
$n_{C'}$	643.8	1.94614
$n_{632.8}$	632.8	1.94748
n_D	589.3	1.95353
n_d	587.6	1.95380
n_e	546.1	1.96118
n_F	486.1	1.97594
$n_{F'}$	480.0	1.97783
n_g	435.8	1.99454
n_h	404.7	2.01096
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	2.308612280
B_2	0.354736638
B_3	1.922271250
C_1	0.013044700
C_2	0.0557524221
C_3	133.19686900

Constants of Formula for dn/dT

D_0	2.25E-06
D_1	1.09E-08
D_2	-1.64E-11
E_0	9.64E-07
E_1	1.25E-09
λ_{TK} [μm]	0.262

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	3.9	6.1	8.7	1.3	3.4	5.9
+20/+40	4.0	6.6	9.7	2.4	4.9	7.9
+60/+80	4.3	7.1	10.5	3.0	5.8	9.1

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.710	0.420
2325	0.850	0.660
1970	0.967	0.920
1530	0.995	0.987
1060	0.999	0.997
700	0.995	0.988
660	0.993	0.983
620	0.991	0.977
580	0.987	0.969
546	0.981	0.954
500	0.959	0.900
460	0.920	0.810
436	0.870	0.710
420	0.810	0.590
405	0.700	0.410
400	0.650	0.340
390	0.500	0.180
380	0.310	0.050
370	0.100	0.000
365	0.030	0.000
350	0.000	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 44/37

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2175
$P_{C,s}$	0.4748
$P_{d,C}$	0.2907
$P_{e,d}$	0.2364
$P_{g,F}$	0.5961
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2142
$P'_{C,s}$	0.5123
$P'_{d,C'}$	0.2416
$P'_{e,d}$	0.2329
$P'_{g,F'}$	0.5274
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0023
$\Delta P_{C,s}$	0.0007
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0037
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	2.3
AR	1
PR	1
SR-J	1
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.7
T_g [°C]	718
T_{10}^{13} [°C]	722
$T_{10}^{7.6}$ [°C]	796
c_p [J/(g·K)]	0.500
λ [W/(m·K)]	0.900
ρ [g/cm ³]	4.86
E [10^3 N/mm ²]	126
μ	0.300
K [10^{-6} mm ² /N]	1.16
$HK_{0.1/20}$	710
HG	2

P-LASF47 806409.454

$n_d = 1.80610$

$v_d = 40.90$

$n_F - n_C = 0.019709$

$n_e = 1.81078$

$v_e = 40.66$

$n_{F'} - n_{C'} = 0.019941$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.76040
$n_{1970.1}$	1970.1	1.76755
$n_{1529.6}$	1529.6	1.77538
$n_{1060.0}$	1060.0	1.78432
n_t	1014.0	1.78544
n_s	852.1	1.79028
n_r	706.5	1.79696
n_C	656.3	1.80023
$n_{C'}$	643.8	1.80116
$n_{632.8}$	632.8	1.80203
n_D	589.3	1.80593
n_d	587.6	1.80610
n_e	546.1	1.81078
n_F	486.1	1.81994
$n_{F'}$	480.0	1.82110
n_g	435.8	1.83112
n_h	404.7	1.84064
n_i	365.0	1.85739
$n_{334.1}$	334.1	1.87632
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.855431010
B_2	0.315854649
B_3	1.285618390
C_1	0.010032820
C_2	0.0387095168
C_3	94.54215070

Constants of Formula for dn/dT

D_0	7.87E-06
D_1	1.09E-08
D_2	-1.56E-11
E_0	7.58E-07
E_1	8.92E-10
λ_{TK} [μm]	0.218

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	6.8	8.3	9.8	4.5	5.9	7.3
+20/+40	6.9	8.6	10.3	5.4	7.0	8.7
+60/+80	7.1	8.9	10.8	5.9	7.7	9.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.530	0.200
2325	0.780	0.530
1970	0.950	0.880
1530	0.992	0.981
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.995	0.988
460	0.990	0.975
436	0.985	0.963
420	0.980	0.950
405	0.971	0.930
400	0.967	0.920
390	0.954	0.890
380	0.930	0.830
370	0.880	0.720
365	0.840	0.650
350	0.660	0.350
334	0.250	0.030
320	0.010	
310	0.000	
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 39/33

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2459
$P_{C,s}$	0.5049
$P_{d,C}$	0.2976
$P_{e,d}$	0.2376
$P_{g,F}$	0.5671
$P_{i,h}$	0.8502

Relative Partial Dispersion P'

$P'_{s,t}$	0.2430
$P'_{C,s}$	0.5453
$P'_{d,C'}$	0.2478
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5025
$P'_{i,h}$	0.8403

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0117
$\Delta P_{C,s}$	0.0066
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0079
$\Delta P_{i,g}$	-0.0482

Chemical Properties

CR	1
FR	1
SR	51.4
AR	1
PR	2.2
SR-J	3
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.3
T_g [°C]	530
T_{10}^{13} [°C]	532
$T_{10}^{7.6}$ [°C]	627
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.850
AT [°C]	580
ρ [g/cm ³]	4.54
E [10^3 N/mm ²]	120
μ	0.298
K [10^{-6} mm ² /N]	2.39
HK _{0.1/20}	620
HG	2
Abrasion Aa	70

P-LASF50 809405.454

$n_d = 1.80860$

$v_d = 40.46$

$n_F - n_C = 0.019985$

$n_e = 1.81335$

$v_e = 40.22$

$n_F - n_C = 0.020223$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.76261
$n_{1970.1}$	1970.1	1.76975
$n_{1529.6}$	1529.6	1.77759
$n_{1060.0}$	1060.0	1.78657
n_t	1014.0	1.78770
n_s	852.1	1.79259
n_r	706.5	1.79934
n_C	656.3	1.80266
$n_{C'}$	643.8	1.80359
$n_{632.8}$	632.8	1.80447
n_D	589.3	1.80842
n_d	587.6	1.80860
n_e	546.1	1.81335
n_F	486.1	1.82264
$n_{F'}$	480.0	1.82382
n_g	435.8	1.83399
n_h	404.7	1.84367
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	1.849105530
B_2	0.329828674
B_3	1.304009010
C_1	0.009992348
C_2	0.0387437988
C_3	95.89676810

Constants of Formula for dn/dT

D_0	8.04E-06
D_1	1.20E-08
D_2	-2.19E-11
E_0	8.20E-07
E_1	9.08E-10
λ_{TK} [μm]	0.209

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	6.9	8.5	10.0	4.5	6.0	7.5
+20/+40	7.1	8.9	10.6	5.5	7.3	9.0
+60/+80	7.3	9.2	11.1	6.1	8.0	9.9

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.530	0.200
2325	0.780	0.530
1970	0.950	0.880
1530	0.992	0.981
1060	0.999	0.998
700	0.998	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.992
546	0.997	0.992
500	0.995	0.987
460	0.990	0.975
436	0.985	0.963
420	0.980	0.950
405	0.971	0.930
400	0.967	0.920
390	0.954	0.890
380	0.930	0.830
370	0.880	0.720
365	0.840	0.650
350	0.660	0.350
334	0.290	0.030
320	0.030	
310	0.000	
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 39/32

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2448
$P_{C,s}$	0.5037
$P_{d,C}$	0.2973
$P_{e,d}$	0.2376
$P_{g,F}$	0.5680
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2419
$P'_{C,s}$	0.5441
$P'_{d,C'}$	0.2475
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5032
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0116
$\Delta P_{C,s}$	0.0065
$\Delta P_{F,e}$	-0.0020
$\Delta P_{g,F}$	-0.0078
$\Delta P_{i,g}$	

Chemical Properties

CR	
FR	
SR	
AR	
PR	
SR-J	3
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.3
T_g [°C]	527
T_{10}^{13} [°C]	526
$T_{10}^{7.6}$ [°C]	660
c_p [J/(g·K)]	0.560
λ [W/(m·K)]	0.950
AT [°C]	571
ρ [g/cm ³]	4.54
E [10^3 N/mm ²]	119
μ	0.298
K [10^{-6} mm ² /N]	2.41
HK _{0.1/20}	655
Abrasion Aa	62

P-LASF51 810409.458

$n_d = 1.81000$

$v_d = 40.93$

$n_F - n_C = 0.019792$

$n_e = 1.81470$

$v_e = 40.68$

$n_F - n_C = 0.020025$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.76437
$n_{1970.1}$	1970.1	1.77145
$n_{1529.6}$	1529.6	1.77923
$n_{1060.0}$	1060.0	1.78815
n_t	1014.0	1.78927
n_s	852.1	1.79413
n_r	706.5	1.80082
n_C	656.3	1.80411
$n_{C'}$	643.8	1.80504
$n_{632.8}$	632.8	1.80591
n_D	589.3	1.80983
n_d	587.6	1.81000
n_e	546.1	1.81470
n_F	486.1	1.82390
$n_{F'}$	480.0	1.82506
n_g	435.8	1.83512
n_h	404.7	1.84467
n_i	365.0	1.86148
$n_{334.1}$	334.1	1.88043
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.845688060
B_2	0.339001600
B_3	1.324189210
C_1	0.009884956
C_2	0.0378097402
C_3	97.84154300

Constants of Formula for dn/dT

D_0	7.79E-06
D_1	1.10E-08
D_2	-2.03E-11
E_0	7.86E-07
E_1	8.78E-10
λ_{TK} [μm]	0.215

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	6.8	8.3	9.9	4.4	5.9	7.3
+20/+40	6.9	8.7	10.4	5.4	7.1	8.8
+60/+80	7.1	8.9	10.8	5.9	7.7	9.6

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.530	0.200
2325	0.780	0.530
1970	0.950	0.880
1530	0.992	0.981
1060	0.999	0.998
700	0.998	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.992
546	0.997	0.992
500	0.995	0.987
460	0.990	0.975
436	0.985	0.963
420	0.980	0.950
405	0.971	0.930
400	0.967	0.920
390	0.954	0.890
380	0.930	0.830
370	0.880	0.720
365	0.840	0.650
350	0.660	0.350
334	0.250	0.030
320	0.010	
310	0.000	
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 39/33

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	0.2453
$P_{C,s}$	0.5045
$P_{d,C}$	0.2976
$P_{e,d}$	0.2376
$P_{g,F}$	0.5670
$P_{i,h}$	0.8491

Relative Partial Dispersion P'

$P'_{s,t}$	0.2425
$P'_{C,s}$	0.5450
$P'_{d,C'}$	0.2477
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5024
$P'_{i,h}$	0.8392

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0107
$\Delta P_{C,s}$	0.0062
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0080
$\Delta P_{i,g}$	-0.0494

Chemical Properties

CR	1
FR	1
SR	51.3
AR	1
PR	2.2
SR-J	3
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.4
T_g [°C]	526
T_{10}^{13} [°C]	534
$T_{10}^{7.6}$ [°C]	629
c_p [J/(g·K)]	0.560
λ [W/(m·K)]	0.870
AT [°C]	570
ρ [g/cm ³]	4.58
E [10^3 N/mm ²]	119
μ	0.299
K [10^{-6} mm ² /N]	2.32
HK _{0.1/20}	722
Abrasion Aa	66

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