

N-KZFS5 654397.304

$n_d = 1.65412$

$v_d = 39.70$

$n_F - n_C = 0.016477$

$n_e = 1.65803$

$v_e = 39.46$

$n_F - n_C = 0.016675$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.61392
$n_{1970.1}$	1970.1	1.62058
$n_{1529.6}$	1529.6	1.62780
$n_{1060.0}$	1060.0	1.63577
n_t	1014.0	1.63673
n_s	852.1	1.64087
n_r	706.5	1.64649
n_C	656.3	1.64922
$n_{C'}$	643.8	1.65000
$n_{632.8}$	632.8	1.65072
n_D	589.3	1.65398
n_d	587.6	1.65412
n_e	546.1	1.65803
n_F	486.1	1.66570
$n_{F'}$	480.0	1.66667
n_g	435.8	1.67511
n_h	404.7	1.68318
n_i	365.0	1.69756
$n_{334.1}$	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	1.474607890
B_2	0.193584488
B_3	1.265899740
C_1	0.009861438
C_2	0.0445477583
C_3	106.43625800

Constants of Formula for dn/dT

D_0	4.54E-06
D_1	1.19E-08
D_2	2.93E-12
E_0	6.89E-07
E_1	8.60E-10
λ_{TK} [μm]	0.230

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	5.3	6.5	2.0	3.1	4.2
+20/+40	4.2	5.5	6.8	2.8	4.0	5.4
+60/+80	4.4	5.8	7.3	3.3	4.7	6.1

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.66	0.35
2325	0.83	0.62
1970	0.963	0.91
1530	0.988	0.970
1060	0.999	0.998
700	0.998	0.994
660	0.997	0.992
620	0.997	0.992
580	0.997	0.993
546	0.997	0.992
500	0.994	0.985
460	0.990	0.974
436	0.986	0.965
420	0.983	0.958
405	0.978	0.95
400	0.976	0.94
390	0.967	0.92
380	0.950	0.88
370	0.93	0.83
365	0.91	0.79
350	0.79	0.56
334	0.37	0.08
320	0.02	0.00
310	0.00	
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 37/32

Remarks

suitable for precision molding

step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.2511
$P_{C,s}$	0.5070
$P_{d,C}$	0.2972
$P_{e,d}$	0.2374
$P_{g,F}$	0.5710
$P_{i,h}$	0.8729

Relative Partial Dispersion P'

$P'_{s,t}$	0.2481
$P'_{C,s}$	0.5473
$P'_{d,C'}$	0.2474
$P'_{e,d}$	0.2345
$P'_{g,F'}$	0.5060
$P'_{i,h}$	0.8625

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0248
$\Delta P_{C,s}$	0.0115
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0060
$\Delta P_{i,g}$	-0.0286

Chemical Properties

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

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.4
T_g [°C]	584
T_{10}^{13} [°C]	593
$T_{10}^{7.6}$ [°C]	739
c_p [J/(g·K)]	0.730
λ [W/(m·K)]	0.950
AT [°C]	648
ρ [g/cm ³]	3.04
E [10 ³ N/mm ²]	89
μ	0.243
K [10 ⁻⁶ mm ² /N]	3.53
HK _{0.1/20}	555
Abrasion Aa	122