

F3**617366**

$n_d = 1.61659$

$v_d = 36.61$

$n_F - n_C = 0.016840$

$n_e = 1.62058$

$v_e = 36.35$

$n_{F'} - n_{C'} = 0.017071$

Refractive Indices

	$\lambda(\text{nm})$	
n_r	706.5	1.60891
n_C	656.3	1.61164
$n_{C'}$	643.8	1.61242
$n_{\text{He-Ne}}$	632.8	1.61315
n_D	589.3	1.61644
n_d	587.6	1.61659
n_e	546.1	1.62058
n_F	486.1	1.62848
$n_{F'}$	480.0	1.62949
n_g	435.8	1.63829
n_h	404.7	1.64680
n_i	365.0	1.66218

Chemical Properties (grade)

RC(S)	3
RA(S)	1
D_W	2
D_A	1

Thermal Properties

$T_g(^{\circ}\text{C})$	444
$T_s(^{\circ}\text{C})$	498
$T_{10}^{14.5}(^{\circ}\text{C})$	407
$T_{10}^{13}(^{\circ}\text{C})$	426
$\alpha_{20/120^{\circ}\text{C}}(10^{-7}/\text{K})$	73
$\alpha_{20/300^{\circ}\text{C}}(10^{-7}/\text{K})$	87
$\lambda(\text{W}/\text{m}\cdot\text{K})$	

Internal Transmittance

$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.910	0.828
2200	0.936	0.876
2000	0.967	0.935
1800	0.980	0.960
1600	0.998	0.996
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.999	0.998
500	0.999	0.998
480	0.998	0.996
460	0.996	0.992
440	0.996	0.992
420	0.993	0.986
400	0.992	0.984
390	0.987	0.974
380	0.976	0.953
370	0.964	0.929
360	0.936	0.876
350	0.877	0.769
340	0.744	0.554
330	0.456	0.208
320	0.098	0.010
310		
300		
290		
280		

Constants of Dispersion Formula

A_0	2.5449193
A_1	$-8.6447716 \times 10^{-3}$
A_2	2.2415946×10^{-2}
A_3	7.7643458×10^{-4}
A_4	$-1.1954050 \times 10^{-5}$
A_5	3.8257209×10^{-6}

Mechanical Properties

$H_K(10^7\text{Pa})$	435
F_A	
$E(10^7\text{Pa})$	5804
$G(10^7\text{Pa})$	2385
μ	0.217
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion

$P_{d,c}$	0.2939	$P'_{d,c'}$	0.2443
$P_{e,d}$	0.2369	$P'_{e,d'}$	0.2337
$P_{g,F}$	0.5825	$P'_{g,F'}$	0.5155

Anomalous dispersions

$\Delta P_{F,e}$	-0.0009
$\Delta P_{g,F}$	-0.0002

Temperature Coefficients of Refractive Index

Range of Temperature ($^{\circ}\text{C}$)	dn/dt relative ($10^{-6}/^{\circ}\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40~-20							
-20~0							
0~20							
20~40							
40~60							
60~80							

Density

$\rho(\text{g}/\text{cm}^3)$	3.58
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Coloration Code

λ_{80}/λ_5	35/32	λ_{70}/λ_5	
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