

QF2

561468

$n_d = 1.56091$

$v_d = 46.80$

$n_F - n_C = 0.011990$

$n_e = 1.56376$

$v_e = 46.51$

$n_{F'} - n_{C'} = 0.012120$

Refractive Indices

	$\lambda(\text{nm})$	
n_r	706.5	1.55532
n_C	656.3	1.55732
$n_{C'}$	643.8	1.55789
$n_{\text{He-Ne}}$	632.8	1.55842
n_D	589.3	1.56080
n_d	587.6	1.56091
n_e	546.1	1.56376
n_F	486.1	1.56931
$n_{F'}$	480.0	1.57001
n_g	435.8	1.57609
n_h	404.7	1.58188
n_i	365.0	1.59209

Chemical Properties (grade)

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

Thermal Properties

Tg(°C)	549
Ts(°C)	635
$T_{10}^{14.5}(\text{°C})$	500
$T_{10}^{13}(\text{°C})$	532
$\alpha_{20/120\text{°C}}(10^{-7}/\text{K})$	76
$\alpha_{20/300\text{°C}}(10^{-7}/\text{K})$	79
$\lambda(\text{W/m}\cdot\text{K})$	

Internal Transmittance

$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400		
2200		
2000		
1800		
1600		
1400		
1200		
1060		
1000		
950		
900		
850	0.998	0.998
800	0.998	0.998
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.998	0.996
480	0.998	0.996
460	0.998	0.996
440	0.998	0.996
420	0.997	0.994
400	0.996	0.992
390	0.994	0.988
380	0.989	0.978
370	0.987	0.973
360	0.973	0.947
350	0.936	0.875
340	0.834	0.696
330	0.573	0.329
320	0.182	0.033
310		
300		
290		
280		

Constants of Dispersion Formula

A_0	2.3686979
A_1	6.0475752×10^{-3}
A_2	2.7356455×10^{-2}
A_3	$-2.5078417 \times 10^{-3}$
A_4	3.4864610×10^{-4}
A_5	$-1.4564919 \times 10^{-5}$

Mechanical Properties

$H_K(10^7\text{Pa})$	467
F_A	
$E(10^7\text{Pa})$	6524
$G(10^7\text{Pa})$	2663
μ	0.225
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion

$P_{d,c}$	0.2994	$P'_{d,c'}$	0.2491
$P_{e,d}$	0.2379	$P'_{e,d'}$	0.2351
$P_{g,F}$	0.5653	$P'_{g,F'}$	0.5015

Anomalous dispersions

$\Delta P_{F,e}$	-0.0014
$\Delta P_{g,F}$	-0.0005

Range of Temperature (°C)

Temperature Coefficients of Refractive Index

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

Density

$\rho(\text{g/cm}^3)$	3.02
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Coloration Code

λ_{80}/λ_5	35/32	λ_{70}/λ_5	
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