

D-ZLaF52N 810410

$n_d = 1.81000$	$v_d = 41.00$	$n_F - n_C = 0.019760$
$n_e = 1.81469$	$v_e = 40.80$	$n_{F'} - n_{C'} = 0.019990$

Refractive Indices		
	$\lambda(\text{nm})$	
n_r	706.5	1.80080
n_C	656.3	1.80410
$n_{C'}$	643.8	1.80503
$n_{\text{He-Ne}}$	632.8	1.80590
n_D	589.3	1.80982
n_d	587.6	1.81000
n_e	546.1	1.81469
n_F	486.1	1.82386
$n_{F'}$	480.0	1.82502
n_g	435.8	1.83507
n_h	404.7	1.84464
n_i	365.0	1.86153

Chemical Properties (grade)	
RC(S)	3
RA(S)	
D_W	1
D_A	3

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	0.997
800	0.997	0.996
700	0.996	0.994
650	0.996	0.994
600	0.996	0.993
550	0.994	0.990
500	0.991	0.984
480	0.990	0.979
460	0.987	0.974
440	0.985	0.968
420	0.982	0.961
400	0.974	0.943
390	0.963	0.922
380	0.947	0.886
370	0.917	0.823
360	0.867	0.723
350	0.776	0.562
340	0.611	0.326
330	0.324	0.078
320	0.071	
310		
300		
290		
280		

Thermal Properties	
$T_g(^{\circ}\text{C})$	538
$T_s(^{\circ}\text{C})$	577
$T_{10}^{14.5}(^{\circ}\text{C})$	510
$T_{10}^{13}(^{\circ}\text{C})$	529
$\alpha_{20/120^{\circ}\text{C}}(10^{-7}/\text{K})$	62
$\alpha_{20/300^{\circ}\text{C}}(10^{-7}/\text{K})$	73
$\lambda(\text{W/m}\cdot\text{K})$	

Constants of Dispersion Formula	
A_0	3.175701
A_1	$-8.5956442 \times 10^{-3}$
A_2	3.6672615×10^{-2}
A_3	$-8.8322460 \times 10^{-4}$
A_4	2.0716010×10^{-4}
A_5	$-7.0406978 \times 10^{-6}$

Mechanical Properties	
$H_K(10^7\text{Pa})$	680
F_A	
$E(10^7\text{Pa})$	12000
$G(10^7\text{Pa})$	4626
μ	0.297
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion			
$P_{d,c}$	0.2986	$P'_{d,c'}$	0.2486
$P_{e,d}$	0.2373	$P'_{e,d}$	0.2346
$P_{g,F}$	0.5673	$P'_{g,F'}$	0.5028

Anomalous dispersions	
$\Delta P_{F,e}$	-0.0032
$\Delta P_{g,F}$	-0.0086

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	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	
$\rho(\text{g/cm}^3)$	4.48

Coloration Code			
λ_{80}/λ_5	40/33	λ_{70}/λ_5	