

<b>D-ZF10</b>	<b>689311</b>	$n_d=1.68893$	$\nu_d=31.08$	$n_F - n_c = 0.022168$
		$n_e=1.69417$	$\nu_e=30.84$	$n_{F'} - n_{c'} = 0.022511$

Refractive Indices			Relative Partial Dispersions				Internal Transmittance			
	$\lambda$ (nm)		$P_{d,c}$	0.2906	$P'_{d,c'}$	0.2415	$\lambda$ (nm)	$\tau$ 5 mm	$\tau$ 10 mm	
$n_t$	1014.0	1.66701	$P_{e,d}$	0.2363	$P'_{e,d}$	0.2327	2400	0.93	0.87	
$n_r$	706.5	1.67896	$P_{g,F}$	0.6000	$P'_{g,F'}$	0.5309	2200	0.957	0.916	
$n_c$	656.3	1.68249					2000	0.978	0.956	
$n_{c'}$	643.8	1.68350	<b>Chemical Properties</b>				1800	0.989	0.979	
$n_{He-Ne}$	632.8	1.68445			Grade		1600	0.999	0.998	
$n_D$	589.3	1.68874	RC(S)		3		1400	0.999	0.998	
$n_d$	587.6	1.68893	RA(S)		1		1200	0.999	0.998	
$n_e$	546.1	1.69417	D <sub>W</sub>		2		1060	0.999	0.998	
$n_F$	486.1	1.70466	D <sub>A</sub>		1		1000	0.999	0.998	
$n_{F'}$	480.0	1.70601					950	0.999	0.998	
$n_g$	435.8	1.71796	<b>Thermal Properties</b>				900	0.999	0.998	
$n_h$	404.7	1.72976	$T_g$ (°C)		507		850	0.999	0.998	
$n_i$	365.0	1.75200	$T_s$ (°C)		548		800	0.999	0.998	
			$T_{10}^{14.5}$ (°C)		459		700	0.997	0.994	
			$T_{10}^{13}$ (°C)		491		650	0.996	0.992	
			$T_{10}^{7.6}$ (°C)				600	0.996	0.993	
<b>Constants of Dispersion Formula</b>			$\alpha_{20/120^\circ C}(10^{-7}/K)$		105		550	0.996	0.993	
$A_0$	2.7595094		$\alpha_{100/300^\circ C}(10^{-7}/K)$		129		500	0.992	0.984	
$A_1$	$-1.0487543 \times 10^{-2}$		$\lambda$ (W/m · K)				480	0.989	0.978	
$A_2$	$2.9892404 \times 10^{-2}$						460	0.985	0.971	
$A_3$	$1.2155144 \times 10^{-3}$		<b>Mechanical Properties</b>				440	0.981	0.963	
$A_4$	$-3.9180167 \times 10^{-5}$		$H_K$ ( $10^7$ Pa)		589		420	0.972	0.945	
$A_5$	$1.1058016 \times 10^{-5}$		$F_A$		178		400	0.940	0.883	
			$E$ ( $10^7$ Pa)		8790		390	0.89	0.80	
<b>Deviation of Relative Partial Dispersions <math>\Delta P</math> from the "Normal Line"</b>			$G$ ( $10^7$ Pa)		3574		380	0.81	0.65	
$\Delta P_{F,e}$	0.0006		$\mu$		0.230		370	0.60	0.36	
$\Delta P_{g,F}$	0.0072		$B$ ( $10^{-12}$ /Pa)				360	0.22	0.05	
							350			
			<b>Other Properties</b>				340			
			$\rho$ (g/cm <sup>3</sup> )		2.84		330			
							320			
<b>Temperature Coefficients of Refractive Index</b>										
Rang of Temperature	$dn/dt$ relative( $10^{-6}/^\circ C$ )									
	t	$C'$	d	e	$F'$	g				
-40~-20	-0.9	-0.7	0.4	1.2	1.5	1.9	310			
-20~0	-0.4	0.3	0.4	0.4	1.4	2.4	300			
0~20	-0.6	0.1	0.2	0.3	1.5	2.9	290			
20~40	-0.8	0.5	0.6	1.1	2.2	3.5	280			
40~60	-0.8	0.4	0.7	1.0	2.4	3.9				
60~80	-0.9	0.4	0.7	0.9	2.4	3.8				
<b>Coloration Code</b>										
$\lambda_{80}/\lambda_5$		40/36								