

<b>H-BaF5</b>	<b>606439</b>	$n_d = 1.60562$	$v_d = 43.88$	$n_F - n_c = 0.013803$
		$n_e = 1.60890$	$v_e = 43.57$	$n_{F'} - n_{c'} = 0.013974$

Refractive Indices		
	$\lambda$ (nm)	
$n_t$	1014.0	1.59106
$n_r$	706.5	1.59924
$n_c$	656.3	1.60153
$n_{c'}$	643.8	1.60217
$n_{He-Ne}$	632.8	1.60278
$n_D$	589.3	1.60550
$n_d$	587.6	1.60562
$n_e$	546.1	1.60890
$n_F$	486.1	1.61533
$n_{F'}$	480.0	1.61615
$n_g$	435.8	1.62323
$n_h$	404.7	1.63002
$n_i$	365.0	1.64220

Constants of Dispersion Formula	
$A_0$	2.5242061
$A_1$	$-1.0552624 \times 10^{-2}$
$A_2$	$1.7984739 \times 10^{-2}$
$A_3$	$6.8026845 \times 10^{-4}$
$A_4$	$-2.3542034 \times 10^{-5}$
$A_5$	$3.3567097 \times 10^{-6}$

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{Fe}$	0.0002
$\Delta P_{g,F}$	0.0014

Temperature Coefficients of Refractive Index						
Rang of Temperature (°C)	$dn/dt_{rel} (10^{-6}/°C)$					
	t	C'	d	e	F'	g
-40~-20	0.6	1.6	1.8	1.8	2.1	2.9
-20~0	0.6	1.8	1.8	1.9	2.6	3.0
0~20	1.6	1.8	2.2	2.7	3.0	3.7
20~40	1.6	1.8	2.2	2.7	3.2	3.9
40~60	1.6	2.4	2.6	2.8	3.5	4.2
60~80	2.0	2.6	2.9	3.0	3.5	4.3

Relative Partial Dispersions			
$P_{d,c}$	0.2963	$P'_{d,c'}$	0.2469
$P_{e,d}$	0.2376	$P'_{e,d}$	0.2347
$P_{g,F}$	0.5723	$P'_{g,F'}$	0.5067

Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D <sub>W</sub>	1
D <sub>A</sub>	1

Thermal Properties	
$T_g$ (°C)	576
$T_s$ (°C)	624
$T_{10}^{14.5}$ (°C)	520
$T_{10}^{13}$ (°C)	554
$T_{10}^{7.6}$ (°C)	692
$\alpha_{20/120°C} (10^{-7}/K)$	82
$\alpha_{100/300°C} (10^{-7}/K)$	97
$\lambda$ (W/m·K)	

Mechanical Properties	
$H_K$ ( $10^7$ Pa)	556
$F_A$	168
$E$ ( $10^7$ Pa)	8210
$G$ ( $10^7$ Pa)	3303
$\mu$	0.243
$B$ ( $10^{-12}$ /Pa)	2.63

Other Properties	
$\rho$ (g/cm <sup>3</sup> )	2.97

Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5 mm	$\tau$ 10 mm
2400	0.914	0.835
2200	0.937	0.878
2000	0.976	0.952
1800	0.987	0.973
1600	0.995	0.991
1400	0.994	0.988
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.996
600	0.997	0.995
550	0.997	0.995
500	0.996	0.993
480	0.996	0.993
460	0.995	0.991
440	0.993	0.987
420	0.991	0.983
400	0.984	0.968
390	0.973	0.947
380	0.948	0.899
370	0.882	0.778
360	0.698	0.487
350	0.302	0.091
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}/\lambda_5$	38/35