

<b>IRG201</b>	<b>Ge33Se55As12</b>	$n_{10.6} = 2.4955$	$u_{10.6} = 95.59$	$n_{8000} - n_{12500} = 0.01565$

Refractive Indices		
n	2000	2.5310
n	3000	2.5243
n	4000	2.5157
n	5000	2.5109
n	6000	2.5080
n	7000	2.5058
n	8000	2.5036
n	9000	2.5009
n	10000	2.4977
n	11000	2.4939
n	12000	2.4899
n	12500	2.4880
n	13000	2.4862
n	14000	2.4838

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
Dw	1
DA	1

Thermal Properties	
Tg(°C)	362
Ts(°C)	410
$\alpha_{40/55^{\circ}\text{C}} (10^{-7}/\text{K})$	117
$\alpha_{20/120^{\circ}\text{C}} (10^{-7}/\text{K})$	121
Cp(J/gK)	

Mechanical Properties	
HK(20°C , kgf /mm <sup>2</sup> )	150
E(GPa)	21.7
G(GPa)	8.5
$\mu$	0.27

Constants of Dispersion Formula	
A	2.4959300E+00
B	3.2440100E-01
C	-7.4682400E-01
D	1.9444700E-04
E	-2.8486200E-06
F	7.6389900E-09

Temperature Coefficients of Refractive Index		
Temperature (°C)	$\lambda(\text{nm})$	dn/dt relative (10 <sup>-6</sup> / °C)
-40 ~ 80	3000	67
-40 ~ 80	5000	65
-40 ~ 80	8000	64
-40 ~ 80	10000	62
-40 ~ 80	12000	62

Other Properties	
$\rho$ ( g/cm <sup>3</sup> )	4.42
$\epsilon_r$	

Transmittance	
$\lambda(\text{nm})$	$\tau(2\text{mm})$
20000	0.027
19000	0.053
18000	0.032
17000	0.128
16000	0.503
15000	0.650
14000	0.669
13000	0.622
12500	0.614
12000	0.656
11000	0.702
10000	0.704
9500	0.703
9000	0.701
8500	0.702
8000	0.698
7500	0.697
7000	0.694
6500	0.689
6000	0.692
5500	0.692
5000	0.688
4500	0.685
4000	0.685
3500	0.681
3000	0.678
2500	0.684
2000	0.680
1500	0.682
1000	0.663
800	0.550
600	
400	
300	

红外透过率(2mm)

