

IRG204	Se63As30Sb4Sn3
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$n_{10.6} = 2.7659$	$\nu_{10.6} = 132.77$	$n_{8000} - n_{12500} = 0.01330$
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Refractive Indices		
n	2000	2.8095
n	3000	2.7914
n	4000	2.7846
n	5000	2.7808
n	6000	2.7779
n	7000	2.7754
n	8000	2.7730
n	9000	2.7704
n	10000	2.7677
n	11000	2.7647
n	12000	2.7614
n	12500	2.7597
n	13000	2.7578
n	14000	2.7538

Constants of Dispersion Formula	
A	2.7790481E+00
B	1.1911498E-01
C	1.5043403E-02
D	-1.2268557E-04
E	-1.0906501E-08
F	-1.8517301E-10

Other Properties	
ρ (g/cm ³)	4.72
ϵ_r	

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
Dw	2
DA	1

Thermal Properties	
Tg(°C)	167
Ts(°C)	207
$\alpha_{-40/55^\circ\text{C}} (10^{-7}/\text{K})$	203
$\alpha_{20/120^\circ\text{C}} (10^{-7}/\text{K})$	213
Cp(J/gK)	

Mechanical Properties	
H _K (20°C, kgf/mm ²)	115
E(GPa)	18.8
G(GPa)	7.3
μ	0.29

Temperature Coefficients of Refractive Index		
Temperature (°C)	$\lambda(\text{nm})$	dn/dt relative (10 ⁻⁶ / °C)
-40~80	1500	
-40~80	2000	26
-40~80	3000	21
-40~80	5000~14000	19

Transmittance	
$\lambda(\text{nm})$	$\tau(2\text{mm})$
20000	0.003
19000	0.119
18000	0.450
17000	0.574
16000	0.614
15000	0.608
14000	0.610
13000	0.648
12000	0.663
11000	0.672
10000	0.675
9500	0.674
9000	0.670
8500	0.670
8000	0.669
7500	0.667
7000	0.662
6500	0.647
6000	0.660
5500	0.662
5000	0.661
4500	0.661
4000	0.658
3500	0.656
3000	0.654
2500	0.654
2000	0.651
1500	0.644
1000	0.583
800	
600	
400	
200	

IR TRANSMITTANCE (2mm)

