

## AGIR-6 DATA SHEET $\text{Se}_{60}\text{As}_{40}$

### MECHANICAL PROPERTIES

HK ( $10^7\text{Pa}$ )	118
E (GPa)	18.5
G (GPa)	7.0
$\mu$	0.33

### THERMAL PROPERTIES

$T_g$ ( $^{\circ}\text{C}$ )	184
$T_s$ ( $^{\circ}\text{C}$ )	126
$\alpha_{-60/120^{\circ}\text{C}}$ ( $10^{-7}/\text{K}$ )	207
$\alpha_{20/120^{\circ}\text{C}}$ ( $10^{-7}/\text{K}$ )	213
$C_p$ (J/g-k)	0.24

### TEMPERATURE COEFFICIENTS OF REFRACTIVE INDEX

$\lambda$ ( $\mu\text{m}$ )	$dn_{\text{rel}}/dt$
3	37
5	34
8	32
10	32
12	32

### OPTICAL PROPERTIES

Refractive Index	
$\lambda$ ( $\mu\text{m}$ )	$n_{\lambda}$
2.0	2.8197
3.0	2.8015
4.0	2.7947
5.0	2.7909
6.0	2.7880
7.0	2.7856
8.0	2.7832
9.0	2.7807
10.0	2.7781
11.0	2.7752
12.0	2.7720
12.5	2.7703
13.0	2.7685
14.0	2.7646

Internal Transmittance	
$\lambda$ ( $\mu\text{m}$ )	$\tau$ mm
17.0	0.849
16.0	0.911
15.0	0.906
14.0	0.900
13.0	0.954
12.5	0.979
12.0	0.989
11.0	0.992
10.0	0.994
9.5	0.996
9.0	0.997
8.5	0.997
8.0	0.997
7.5	0.996
7.0	0.997
6.5	0.997
6.0	0.996
5.5	0.996
5.0	0.996
4.5	0.982
4.0	0.996
3.5	0.996
3.0	0.995
2.5	0.996
2.0	0.994
1.5	0.992
1.0	0.990