## Muons in silver iodide (AgI)

| $\langle Z/A \rangle$ | $\rho$ [g/cm$^3$] | $I$ [eV] | $a$ | $k = m_s$ | $x_0$ | $x_1$ | $\overline{C}$ | $\delta_0$ |
|---|---|---|---|---|---|---|---|---|
| 0.42594 | 6.010 | 543.5 | 0.25059 | 2.6572 | 0.0148 | 3.2908 | 5.9342 | 0.00 |

| $T$ | $p$ [MeV/$c$] | Ionization | Brems | Pair prod | Photonucl | Total | CSDA range [g/cm$^2$] |
|---|---|---|---|---|---|---|---|
| | | [MeV cm$^2$/g] | | | | | |
| 10.0 MeV | $4.704 \times 10^1$ | 4.546 | | | | 4.546 | $1.248 \times 10^0$ |
| 14.0 MeV | $5.616 \times 10^1$ | 3.592 | | | | 3.592 | $2.247 \times 10^0$ |
| 20.0 MeV | $6.802 \times 10^1$ | 2.839 | | | | 2.839 | $4.146 \times 10^0$ |
| 30.0 MeV | $8.509 \times 10^1$ | 2.230 | | | | 2.230 | $8.173 \times 10^0$ |
| 40.0 MeV | $1.003 \times 10^2$ | 1.920 | | | | 1.920 | $1.304 \times 10^1$ |
| 80.0 MeV | $1.527 \times 10^2$ | 1.468 | | | | 1.468 | $3.758 \times 10^1$ |
| 100. MeV | $1.764 \times 10^2$ | 1.388 | | | | 1.388 | $5.162 \times 10^1$ |
| 140. MeV | $2.218 \times 10^2$ | 1.311 | | | | 1.311 | $8.141 \times 10^1$ |
| 200. MeV | $2.868 \times 10^2$ | 1.274 | | | | 1.274 | $1.280 \times 10^2$ |
| 242. MeV | $3.316 \times 10^2$ | 1.269 | | | | 1.270 | *Minimum ionization* |
| 300. MeV | $3.917 \times 10^2$ | 1.274 | 0.000 | | 0.000 | 1.274 | $2.067 \times 10^2$ |
| 400. MeV | $4.945 \times 10^2$ | 1.294 | 0.000 | | 0.000 | 1.294 | $2.846 \times 10^2$ |
| 800. MeV | $8.995 \times 10^2$ | 1.381 | 0.001 | | 0.000 | 1.382 | $5.833 \times 10^2$ |
| 1.00 GeV | $1.101 \times 10^3$ | 1.415 | 0.001 | | 0.000 | 1.417 | $7.262 \times 10^2$ |
| 1.40 GeV | $1.502 \times 10^3$ | 1.471 | 0.002 | 0.000 | 0.001 | 1.473 | $1.003 \times 10^3$ |
| 2.00 GeV | $2.103 \times 10^3$ | 1.530 | 0.003 | 0.001 | 0.001 | 1.535 | $1.401 \times 10^3$ |
| 3.00 GeV | $3.104 \times 10^3$ | 1.598 | 0.005 | 0.003 | 0.001 | 1.607 | $2.037 \times 10^3$ |
| 4.00 GeV | $4.104 \times 10^3$ | 1.645 | 0.007 | 0.005 | 0.002 | 1.659 | $2.649 \times 10^3$ |
| 8.00 GeV | $8.105 \times 10^3$ | 1.750 | 0.017 | 0.017 | 0.003 | 1.788 | $4.962 \times 10^3$ |
| 10.0 GeV | $1.011 \times 10^4$ | 1.782 | 0.023 | 0.024 | 0.004 | 1.833 | $6.066 \times 10^3$ |
| 14.0 GeV | $1.411 \times 10^4$ | 1.827 | 0.035 | 0.038 | 0.005 | 1.907 | $8.204 \times 10^3$ |
| 20.0 GeV | $2.011 \times 10^4$ | 1.872 | 0.054 | 0.062 | 0.008 | 1.997 | $1.128 \times 10^4$ |
| 30.0 GeV | $3.011 \times 10^4$ | 1.920 | 0.089 | 0.109 | 0.011 | 2.130 | $1.612 \times 10^4$ |
| 40.0 GeV | $4.011 \times 10^4$ | 1.951 | 0.126 | 0.159 | 0.015 | 2.252 | $2.069 \times 10^4$ |
| 80.0 GeV | $8.011 \times 10^4$ | 2.021 | 0.284 | 0.382 | 0.029 | 2.717 | $3.682 \times 10^4$ |
| 100. GeV | $1.001 \times 10^5$ | 2.041 | 0.368 | 0.502 | 0.036 | 2.949 | $4.389 \times 10^4$ |
| 140. GeV | $1.401 \times 10^5$ | 2.072 | 0.541 | 0.749 | 0.050 | 3.413 | $5.649 \times 10^4$ |
| 200. GeV | $2.001 \times 10^5$ | 2.103 | 0.810 | 1.141 | 0.072 | 4.127 | $7.246 \times 10^4$ |
| 207. GeV | $2.076 \times 10^5$ | 2.106 | 0.844 | 1.189 | 0.074 | 4.214 | *Muon critical energy* |
| 300. GeV | $3.001 \times 10^5$ | 2.139 | 1.271 | 1.795 | 0.107 | 5.313 | $9.377 \times 10^4$ |
| 400. GeV | $4.001 \times 10^5$ | 2.164 | 1.747 | 2.473 | 0.143 | 6.528 | $1.107 \times 10^5$ |
| 800. GeV | $8.001 \times 10^5$ | 2.225 | 3.713 | 5.254 | 0.290 | 11.482 | $1.564 \times 10^5$ |
| 1.00 TeV | $1.000 \times 10^6$ | 2.245 | 4.723 | 6.676 | 0.364 | 14.009 | $1.721 \times 10^5$ |
| 1.40 TeV | $1.400 \times 10^6$ | 2.275 | 6.748 | 9.514 | 0.516 | 19.054 | $1.965 \times 10^5$ |
| 2.00 TeV | $2.000 \times 10^6$ | 2.307 | 9.846 | 13.845 | 0.746 | 26.746 | $2.230 \times 10^5$ |
| 3.00 TeV | $3.000 \times 10^6$ | 2.344 | 15.019 | 21.042 | 1.140 | 39.547 | $2.535 \times 10^5$ |
| 4.00 TeV | $4.000 \times 10^6$ | 2.371 | 20.261 | 28.316 | 1.541 | 52.491 | $2.754 \times 10^5$ |
| 8.00 TeV | $8.000 \times 10^6$ | 2.437 | 41.398 | 57.558 | 3.202 | 104.596 | $3.283 \times 10^5$ |
| 10.0 TeV | $1.000 \times 10^7$ | 2.459 | 52.050 | 72.257 | 4.055 | 130.822 | $3.454 \times 10^5$ |
| 14.0 TeV | $1.400 \times 10^7$ | 2.492 | 73.296 | 101.586 | 5.806 | 183.181 | $3.711 \times 10^5$ |
| 20.0 TeV | $2.000 \times 10^7$ | 2.528 | 105.356 | 145.768 | 8.489 | 262.142 | $3.984 \times 10^5$ |
| 30.0 TeV | $3.000 \times 10^7$ | 2.569 | 158.727 | 219.278 | 13.125 | 393.702 | $4.293 \times 10^5$ |
| 40.0 TeV | $4.000 \times 10^7$ | 2.599 | 212.293 | 292.964 | 17.871 | 525.728 | $4.512 \times 10^5$ |
| 80.0 TeV | $8.000 \times 10^7$ | 2.672 | 426.880 | 587.911 | 37.683 | 1055.148 | $5.038 \times 10^5$ |
| 100. TeV | $1.000 \times 10^8$ | 2.697 | 534.358 | 735.519 | 47.915 | 1320.490 | $5.207 \times 10^5$ |