

Table 236: Muons in Potassium iodide (KI)

| $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|-----------------------|-----------------------------|------------|---------|---------------------------------------|-----------|----------|------------------------------------|------------|
| 0.43373 | 3.130 | 431.9 | 0.22053 | 2.7558 | 0.1044 | 3.3442 | 6.1088 | 0.00 |
| T | p [MeV/c] | Ionization | Brems | Pair prod [MeV cm ² /g] | Photonucl | Total | CSDA range [g/cm ²] | |
| 10.0 MeV | 4.704×10^1 | 4.814 | | | | 4.814 | 1.173×10^0 | |
| 14.0 MeV | 5.616×10^1 | 3.796 | | | | 3.796 | 2.118×10^0 | |
| 20.0 MeV | 6.802×10^1 | 2.995 | | | | 2.995 | 3.917×10^0 | |
| 30.0 MeV | 8.509×10^1 | 2.348 | | | | 2.349 | 7.738×10^0 | |
| 40.0 MeV | 1.003×10^2 | 2.019 | | | | 2.019 | 1.236×10^1 | |
| 80.0 MeV | 1.527×10^2 | 1.541 | | | | 1.541 | 3.573×10^1 | |
| 100. MeV | 1.764×10^2 | 1.457 | | | | 1.457 | 4.910×10^1 | |
| 140. MeV | 2.218×10^2 | 1.376 | | | | 1.376 | 7.748×10^1 | |
| 200. MeV | 2.868×10^2 | 1.337 | | | | 1.337 | 1.219×10^2 | |
| 246. MeV | 3.356×10^2 | 1.332 | | | | 1.332 | <i>Minimum ionization</i> | |
| 300. MeV | 3.917×10^2 | 1.336 | 0.000 | | 0.000 | 1.337 | 1.969×10^2 | |
| 400. MeV | 4.945×10^2 | 1.356 | 0.000 | | 0.000 | 1.357 | 2.712×10^2 | |
| 800. MeV | 8.995×10^2 | 1.446 | 0.001 | | 0.000 | 1.447 | 5.563×10^2 | |
| 1.00 GeV | 1.101×10^3 | 1.481 | 0.001 | | 0.000 | 1.483 | 6.928×10^2 | |
| 1.40 GeV | 1.502×10^3 | 1.538 | 0.002 | 0.000 | 0.001 | 1.541 | 9.572×10^2 | |
| 2.00 GeV | 2.103×10^3 | 1.599 | 0.002 | 0.001 | 0.001 | 1.604 | 1.338×10^3 | |
| 3.00 GeV | 3.104×10^3 | 1.669 | 0.004 | 0.003 | 0.001 | 1.677 | 1.947×10^3 | |
| 4.00 GeV | 4.104×10^3 | 1.716 | 0.006 | 0.005 | 0.002 | 1.729 | 2.534×10^3 | |
| 8.00 GeV | 8.105×10^3 | 1.824 | 0.016 | 0.015 | 0.003 | 1.859 | 4.756×10^3 | |
| 10.0 GeV | 1.011×10^4 | 1.856 | 0.021 | 0.021 | 0.004 | 1.903 | 5.819×10^3 | |
| 14.0 GeV | 1.411×10^4 | 1.903 | 0.031 | 0.034 | 0.006 | 1.975 | 7.881×10^3 | |
| 20.0 GeV | 2.011×10^4 | 1.949 | 0.049 | 0.056 | 0.008 | 2.062 | 1.085×10^4 | |
| 30.0 GeV | 3.011×10^4 | 1.997 | 0.080 | 0.098 | 0.012 | 2.187 | 1.556×10^4 | |
| 40.0 GeV | 4.011×10^4 | 2.029 | 0.113 | 0.143 | 0.015 | 2.301 | 2.001×10^4 | |
| 80.0 GeV | 8.011×10^4 | 2.100 | 0.256 | 0.343 | 0.030 | 2.729 | 3.595×10^4 | |
| 100. GeV | 1.001×10^5 | 2.121 | 0.331 | 0.451 | 0.037 | 2.941 | 4.301×10^4 | |
| 140. GeV | 1.401×10^5 | 2.152 | 0.486 | 0.673 | 0.051 | 3.364 | 5.572×10^4 | |
| 200. GeV | 2.001×10^5 | 2.184 | 0.728 | 1.026 | 0.073 | 4.012 | 7.204×10^4 | |
| 236. GeV | 2.364×10^5 | 2.199 | 0.877 | 1.236 | 0.086 | 4.399 | <i>Muon critical energy</i> | |
| 300. GeV | 3.001×10^5 | 2.220 | 1.143 | 1.615 | 0.109 | 5.088 | 9.413×10^4 | |
| 400. GeV | 4.001×10^5 | 2.246 | 1.571 | 2.225 | 0.146 | 6.188 | 1.119×10^5 | |
| 800. GeV | 8.001×10^5 | 2.308 | 3.341 | 4.728 | 0.294 | 10.672 | 1.606×10^5 | |
| 1.00 TeV | 1.000×10^6 | 2.328 | 4.250 | 6.010 | 0.370 | 12.959 | 1.776×10^5 | |
| 1.40 TeV | 1.400×10^6 | 2.359 | 6.074 | 8.566 | 0.524 | 17.523 | 2.040×10^5 | |
| 2.00 TeV | 2.000×10^6 | 2.391 | 8.863 | 12.467 | 0.758 | 24.481 | 2.329×10^5 | |
| 3.00 TeV | 3.000×10^6 | 2.430 | 13.522 | 18.951 | 1.159 | 36.062 | 2.663×10^5 | |
| 4.00 TeV | 4.000×10^6 | 2.457 | 18.243 | 25.505 | 1.566 | 47.772 | 2.903×10^5 | |
| 8.00 TeV | 8.000×10^6 | 2.524 | 37.283 | 51.853 | 3.256 | 94.917 | 3.486×10^5 | |
| 10.0 TeV | 1.000×10^7 | 2.546 | 46.879 | 65.099 | 4.124 | 118.649 | 3.674×10^5 | |
| 14.0 TeV | 1.400×10^7 | 2.580 | 66.023 | 91.526 | 5.906 | 166.036 | 3.958×10^5 | |
| 20.0 TeV | 2.000×10^7 | 2.616 | 94.911 | 131.340 | 8.638 | 237.507 | 4.258×10^5 | |
| 30.0 TeV | 3.000×10^7 | 2.658 | 142.997 | 197.582 | 13.360 | 356.599 | 4.600×10^5 | |
| 40.0 TeV | 4.000×10^7 | 2.689 | 191.259 | 263.983 | 18.196 | 476.128 | 4.842×10^5 | |
| 80.0 TeV | 8.000×10^7 | 2.764 | 384.613 | 529.775 | 38.390 | 955.543 | 5.423×10^5 | |
| 100. TeV | 1.000×10^8 | 2.788 | 481.461 | 662.794 | 48.823 | 1195.867 | 5.610×10^5 | |