

Muons in amber ($\text{C}_{10}\text{H}_{16}\text{O}$)

| | $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|-----------------------|-----------------------------|----------|-----------|-----------|---------|------------------------------------|-----------|------------|
| | 0.55179 | 1.100 | 63.2 | 0.11934 | 3.4098 | 0.1335 | 2.5610 | 3.0701 | 0.00 |
| T | p [MeV/c] | Ionization | Brems | Pair prod | Photonucl | Total | CSDA range [g/cm ²] | | |
| 10.0 MeV | 4.704×10^1 | 8.093 | | | | 8.093 | 6.818×10^{-1} | | |
| 14.0 MeV | 5.616×10^1 | 6.308 | | | | 6.308 | 1.248×10^0 | | |
| 20.0 MeV | 6.802×10^1 | 4.922 | | | | 4.922 | 2.337×10^0 | | |
| 30.0 MeV | 8.509×10^1 | 3.816 | | | | 3.816 | 4.677×10^0 | | |
| 40.0 MeV | 1.003×10^2 | 3.256 | | | | 3.256 | 7.532×10^0 | | |
| 80.0 MeV | 1.527×10^2 | 2.438 | | | | 2.438 | 2.217×10^1 | | |
| 100. MeV | 1.764×10^2 | 2.282 | | | | 2.282 | 3.068×10^1 | | |
| 140. MeV | 2.218×10^2 | 2.123 | | | | 2.123 | 4.893×10^1 | | |
| 200. MeV | 2.868×10^2 | 2.030 | | | | 2.031 | 7.794×10^1 | | |
| 300. MeV | 3.917×10^2 | 1.993 | | | 0.000 | 1.994 | 1.278×10^2 | | |
| 324. MeV | 4.161×10^2 | 1.993 | | | 0.000 | 1.993 | <i>Minimum ionization</i> | | |
| 400. MeV | 4.945×10^2 | 1.998 | | | 0.000 | 1.998 | 1.779×10^2 | | |
| 800. MeV | 8.995×10^2 | 2.069 | 0.000 | | 0.000 | 2.069 | 3.748×10^2 | | |
| 1.00 GeV | 1.101×10^3 | 2.102 | 0.000 | | 0.000 | 2.103 | 4.706×10^2 | | |
| 1.40 GeV | 1.502×10^3 | 2.156 | 0.000 | | 0.001 | 2.157 | 6.583×10^2 | | |
| 2.00 GeV | 2.103×10^3 | 2.215 | 0.000 | 0.000 | 0.001 | 2.217 | 9.325×10^2 | | |
| 3.00 GeV | 3.104×10^3 | 2.283 | 0.001 | 0.001 | 0.001 | 2.286 | 1.376×10^3 | | |
| 4.00 GeV | 4.104×10^3 | 2.331 | 0.001 | 0.001 | 0.002 | 2.335 | 1.809×10^3 | | |
| 8.00 GeV | 8.105×10^3 | 2.439 | 0.003 | 0.003 | 0.004 | 2.449 | 3.477×10^3 | | |
| 10.0 GeV | 1.011×10^4 | 2.472 | 0.004 | 0.004 | 0.005 | 2.485 | 4.287×10^3 | | |
| 14.0 GeV | 1.411×10^4 | 2.521 | 0.006 | 0.006 | 0.007 | 2.540 | 5.878×10^3 | | |
| 20.0 GeV | 2.011×10^4 | 2.569 | 0.009 | 0.011 | 0.009 | 2.599 | 8.212×10^3 | | |
| 30.0 GeV | 3.011×10^4 | 2.622 | 0.015 | 0.019 | 0.014 | 2.670 | 1.201×10^4 | | |
| 40.0 GeV | 4.011×10^4 | 2.658 | 0.022 | 0.027 | 0.018 | 2.725 | 1.571×10^4 | | |
| 80.0 GeV | 8.011×10^4 | 2.742 | 0.049 | 0.066 | 0.035 | 2.892 | 2.993×10^4 | | |
| 100. GeV | 1.001×10^5 | 2.768 | 0.064 | 0.088 | 0.043 | 2.963 | 3.676×10^4 | | |
| 140. GeV | 1.401×10^5 | 2.806 | 0.095 | 0.132 | 0.060 | 3.093 | 4.997×10^4 | | |
| 200. GeV | 2.001×10^5 | 2.847 | 0.143 | 0.202 | 0.084 | 3.277 | 6.881×10^4 | | |
| 300. GeV | 3.001×10^5 | 2.892 | 0.226 | 0.322 | 0.127 | 3.567 | 9.805×10^4 | | |
| 400. GeV | 4.001×10^5 | 2.925 | 0.313 | 0.447 | 0.169 | 3.853 | 1.250×10^5 | | |
| 800. GeV | 8.001×10^5 | 3.004 | 0.673 | 0.967 | 0.341 | 4.985 | 2.160×10^5 | | |
| 1.00 TeV | 1.000×10^6 | 3.030 | 0.859 | 1.237 | 0.428 | 5.554 | 2.540×10^5 | | |
| 1.19 TeV | 1.194×10^6 | 3.050 | 1.040 | 1.496 | 0.515 | 6.101 | <i>Muon critical energy</i> | | |
| 1.40 TeV | 1.400×10^6 | 3.069 | 1.234 | 1.773 | 0.607 | 6.684 | 3.196×10^5 | | |
| 2.00 TeV | 2.000×10^6 | 3.111 | 1.811 | 2.596 | 0.879 | 8.398 | 3.995×10^5 | | |
| 3.00 TeV | 3.000×10^6 | 3.159 | 2.780 | 3.966 | 1.348 | 11.253 | 5.020×10^5 | | |
| 4.00 TeV | 4.000×10^6 | 3.194 | 3.766 | 5.357 | 1.824 | 14.141 | 5.812×10^5 | | |
| 8.00 TeV | 8.000×10^6 | 3.279 | 7.761 | 10.958 | 3.809 | 25.809 | 7.875×10^5 | | |
| 10.0 TeV | 1.000×10^7 | 3.308 | 9.783 | 13.780 | 4.832 | 31.704 | 8.573×10^5 | | |
| 14.0 TeV | 1.400×10^7 | 3.351 | 13.819 | 19.403 | 6.940 | 43.513 | 9.646×10^5 | | |
| 20.0 TeV | 2.000×10^7 | 3.397 | 19.927 | 27.884 | 10.181 | 61.389 | 1.080×10^6 | | |
| 30.0 TeV | 3.000×10^7 | 3.450 | 30.098 | 41.995 | 15.807 | 91.351 | 1.213×10^6 | | |
| 40.0 TeV | 4.000×10^7 | 3.489 | 40.328 | 56.153 | 21.584 | 121.554 | 1.307×10^6 | | |
| 80.0 TeV | 8.000×10^7 | 3.584 | 81.338 | 112.834 | 45.842 | 243.598 | 1.535×10^6 | | |
| 100. TeV | 1.000×10^8 | 3.615 | 101.896 | 141.209 | 58.422 | 305.142 | 1.609×10^6 | | |