

Muons in polyoxymethylene $[(\text{CH}_2\text{O})_n]$

| | $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|-----------------------|-----------------------------|----------|--------------------------|-----------|---------|------------------------------------|------------------------|-----------------------------|
| | 0.53287 | 1.425 | 77.4 | 0.10808 | 3.4002 | 0.1584 | 2.6838 | 3.2514 | 0.00 |
| T | p [MeV/c] | Ionization | Brems | Pair prod | Photonucl | Total | CSDA range [g/cm ²] | | |
| | | | | [MeV cm ² /g] | | | | | |
| 10.0 MeV | 4.704×10^1 | 7.615 | | | | 7.615 | | 7.260×10^{-1} | |
| 14.0 MeV | 5.616×10^1 | 5.941 | | | | 5.941 | | 1.327×10^0 | |
| 20.0 MeV | 6.802×10^1 | 4.640 | | | | 4.640 | | 2.483×10^0 | |
| 30.0 MeV | 8.509×10^1 | 3.600 | | | | 3.600 | | 4.964×10^0 | |
| 40.0 MeV | 1.003×10^2 | 3.075 | | | | 3.075 | | 7.989×10^0 | |
| 80.0 MeV | 1.527×10^2 | 2.309 | | | | 2.309 | | 2.348×10^1 | |
| 100. MeV | 1.764×10^2 | 2.163 | | | | 2.163 | | 3.245×10^1 | |
| 140. MeV | 2.218×10^2 | 2.013 | | | | 2.013 | | 5.172×10^1 | |
| 200. MeV | 2.868×10^2 | 1.927 | | | | 1.927 | | 8.229×10^1 | |
| 300. MeV | 3.917×10^2 | 1.894 | | | 0.000 | 1.894 | | 1.348×10^2 | |
| 318. MeV | 4.105×10^2 | 1.894 | | | 0.000 | 1.894 | | | <i>Minimum ionization</i> |
| 400. MeV | 4.945×10^2 | 1.900 | | | 0.000 | 1.900 | | 1.875×10^2 | |
| 800. MeV | 8.995×10^2 | 1.971 | 0.000 | | 0.000 | 1.972 | | 3.943×10^2 | |
| 1.00 GeV | 1.101×10^3 | 2.004 | 0.000 | | 0.000 | 2.005 | | 4.948×10^2 | |
| 1.40 GeV | 1.502×10^3 | 2.057 | 0.000 | | 0.001 | 2.058 | | 6.916×10^2 | |
| 2.00 GeV | 2.103×10^3 | 2.116 | 0.001 | 0.000 | 0.001 | 2.118 | | 9.788×10^2 | |
| 3.00 GeV | 3.104×10^3 | 2.183 | 0.001 | 0.001 | 0.001 | 2.186 | | 1.443×10^3 | |
| 4.00 GeV | 4.104×10^3 | 2.229 | 0.001 | 0.001 | 0.002 | 2.234 | | 1.895×10^3 | |
| 8.00 GeV | 8.105×10^3 | 2.336 | 0.003 | 0.003 | 0.004 | 2.346 | | 3.637×10^3 | |
| 10.0 GeV | 1.011×10^4 | 2.368 | 0.004 | 0.004 | 0.005 | 2.382 | | 4.483×10^3 | |
| 14.0 GeV | 1.411×10^4 | 2.415 | 0.007 | 0.007 | 0.007 | 2.436 | | 6.143×10^3 | |
| 20.0 GeV | 2.011×10^4 | 2.463 | 0.011 | 0.012 | 0.009 | 2.495 | | 8.575×10^3 | |
| 30.0 GeV | 3.011×10^4 | 2.514 | 0.017 | 0.021 | 0.013 | 2.566 | | 1.252×10^4 | |
| 40.0 GeV | 4.011×10^4 | 2.549 | 0.025 | 0.031 | 0.018 | 2.623 | | 1.638×10^4 | |
| 80.0 GeV | 8.011×10^4 | 2.629 | 0.056 | 0.076 | 0.034 | 2.796 | | 3.112×10^4 | |
| 100. GeV | 1.001×10^5 | 2.654 | 0.073 | 0.100 | 0.042 | 2.870 | | 3.818×10^4 | |
| 140. GeV | 1.401×10^5 | 2.692 | 0.108 | 0.150 | 0.059 | 3.009 | | 5.179×10^4 | |
| 200. GeV | 2.001×10^5 | 2.731 | 0.163 | 0.230 | 0.084 | 3.207 | | 7.110×10^4 | |
| 300. GeV | 3.001×10^5 | 2.775 | 0.257 | 0.365 | 0.125 | 3.523 | | 1.008×10^5 | |
| 400. GeV | 4.001×10^5 | 2.806 | 0.354 | 0.507 | 0.167 | 3.834 | | 1.280×10^5 | |
| 800. GeV | 8.001×10^5 | 2.883 | 0.761 | 1.095 | 0.337 | 5.076 | | 2.184×10^5 | |
| 1.00 TeV | 1.000×10^6 | 2.907 | 0.971 | 1.399 | 0.424 | 5.701 | | 2.556×10^5 | |
| 1.04 TeV | 1.040×10^6 | 2.912 | 1.012 | 1.458 | 0.441 | 5.824 | | | <i>Muon critical energy</i> |
| 1.40 TeV | 1.400×10^6 | 2.945 | 1.394 | 2.004 | 0.601 | 6.944 | | 3.190×10^5 | |
| 2.00 TeV | 2.000×10^6 | 2.986 | 2.044 | 2.931 | 0.870 | 8.831 | | 3.955×10^5 | |
| 3.00 TeV | 3.000×10^6 | 3.032 | 3.133 | 4.475 | 1.334 | 11.974 | | 4.924×10^5 | |
| 4.00 TeV | 4.000×10^6 | 3.066 | 4.242 | 6.040 | 1.805 | 15.153 | | 5.665×10^5 | |
| 8.00 TeV | 8.000×10^6 | 3.149 | 8.731 | 12.346 | 3.767 | 27.993 | | 7.578×10^5 | |
| 10.0 TeV | 1.000×10^7 | 3.176 | 11.002 | 15.522 | 4.778 | 34.478 | | 8.220×10^5 | |
| 14.0 TeV | 1.400×10^7 | 3.217 | 15.533 | 21.850 | 6.861 | 47.461 | | 9.205×10^5 | |
| 20.0 TeV | 2.000×10^7 | 3.262 | 22.387 | 31.395 | 10.061 | 67.105 | | 1.026×10^6 | |
| 30.0 TeV | 3.000×10^7 | 3.314 | 33.800 | 47.276 | 15.616 | 100.006 | | 1.148×10^6 | |
| 40.0 TeV | 4.000×10^7 | 3.351 | 45.274 | 63.209 | 21.318 | 133.151 | | 1.234×10^6 | |
| 80.0 TeV | 8.000×10^7 | 3.443 | 91.282 | 126.994 | 45.246 | 266.965 | | 1.442×10^6 | |
| 100. TeV | 1.000×10^8 | 3.473 | 114.348 | 158.924 | 57.650 | 334.395 | | 1.509×10^6 | |