

Muons in rubber neoprene $[(C_4H_5Cl)_n]$

| | $\langle Z/A \rangle$ | ρ [g/cm ³] | I [eV] | a | $k = m_s$ | x_0 | x_1 | \bar{C} | δ_0 |
|----------|-----------------------|-----------------------------|----------|-----------|-----------|---------|------------------------------------|-----------|------------|
| | 0.51956 | 1.230 | 93.0 | 0.09763 | 3.3632 | 0.1501 | 2.9461 | 3.7911 | 0.00 |
| T | p [MeV/c] | Ionization | Brems | Pair prod | Photonucl | Total | CSDA range [g/cm ²] | | |
| 10.0 MeV | 4.704×10^1 | 7.248 | | | | 7.248 | 7.641×10^{-1} | | |
| 14.0 MeV | 5.616×10^1 | 5.659 | | | | 5.660 | 1.395×10^0 | | |
| 20.0 MeV | 6.802×10^1 | 4.424 | | | | 4.424 | 2.608×10^0 | | |
| 30.0 MeV | 8.509×10^1 | 3.436 | | | | 3.436 | 5.209×10^0 | | |
| 40.0 MeV | 1.003×10^2 | 2.936 | | | | 2.936 | 8.377×10^0 | | |
| 80.0 MeV | 1.527×10^2 | 2.207 | | | | 2.207 | 2.459×10^1 | | |
| 100. MeV | 1.764×10^2 | 2.070 | | | | 2.070 | 3.397×10^1 | | |
| 140. MeV | 2.218×10^2 | 1.931 | | | | 1.931 | 5.407×10^1 | | |
| 200. MeV | 2.868×10^2 | 1.853 | | | | 1.853 | 8.590×10^1 | | |
| 300. MeV | 3.917×10^2 | 1.826 | | | 0.000 | 1.826 | 1.404×10^2 | | |
| 304. MeV | 3.959×10^2 | 1.826 | | | 0.000 | 1.826 | <i>Minimum ionization</i> | | |
| 400. MeV | 4.945×10^2 | 1.835 | | | 0.000 | 1.835 | 1.951×10^2 | | |
| 800. MeV | 8.995×10^2 | 1.911 | 0.000 | | 0.000 | 1.912 | 4.087×10^2 | | |
| 1.00 GeV | 1.101×10^3 | 1.946 | 0.000 | | 0.000 | 1.946 | 5.123×10^2 | | |
| 1.40 GeV | 1.502×10^3 | 2.001 | 0.000 | 0.000 | 0.001 | 2.002 | 7.148×10^2 | | |
| 2.00 GeV | 2.103×10^3 | 2.061 | 0.001 | 0.000 | 0.001 | 2.063 | 1.010×10^3 | | |
| 3.00 GeV | 3.104×10^3 | 2.130 | 0.001 | 0.001 | 0.001 | 2.133 | 1.486×10^3 | | |
| 4.00 GeV | 4.104×10^3 | 2.177 | 0.002 | 0.001 | 0.002 | 2.183 | 1.949×10^3 | | |
| 8.00 GeV | 8.105×10^3 | 2.286 | 0.005 | 0.004 | 0.004 | 2.299 | 3.729×10^3 | | |
| 10.0 GeV | 1.011×10^4 | 2.318 | 0.006 | 0.006 | 0.005 | 2.336 | 4.592×10^3 | | |
| 14.0 GeV | 1.411×10^4 | 2.366 | 0.009 | 0.010 | 0.006 | 2.392 | 6.283×10^3 | | |
| 20.0 GeV | 2.011×10^4 | 2.413 | 0.015 | 0.017 | 0.009 | 2.454 | 8.758×10^3 | | |
| 30.0 GeV | 3.011×10^4 | 2.464 | 0.024 | 0.029 | 0.013 | 2.531 | 1.277×10^4 | | |
| 40.0 GeV | 4.011×10^4 | 2.499 | 0.034 | 0.043 | 0.017 | 2.593 | 1.667×10^4 | | |
| 80.0 GeV | 8.011×10^4 | 2.577 | 0.077 | 0.104 | 0.034 | 2.792 | 3.151×10^4 | | |
| 100. GeV | 1.001×10^5 | 2.602 | 0.100 | 0.137 | 0.042 | 2.881 | 3.856×10^4 | | |
| 140. GeV | 1.401×10^5 | 2.638 | 0.147 | 0.206 | 0.058 | 3.049 | 5.205×10^4 | | |
| 200. GeV | 2.001×10^5 | 2.676 | 0.221 | 0.315 | 0.082 | 3.294 | 7.097×10^4 | | |
| 300. GeV | 3.001×10^5 | 2.719 | 0.348 | 0.498 | 0.123 | 3.689 | 9.964×10^4 | | |
| 400. GeV | 4.001×10^5 | 2.750 | 0.480 | 0.690 | 0.164 | 4.084 | 1.254×10^5 | | |
| 796. GeV | 7.959×10^5 | 2.824 | 1.022 | 1.473 | 0.330 | 5.648 | <i>Muon critical energy</i> | | |
| 800. GeV | 8.001×10^5 | 2.824 | 1.027 | 1.481 | 0.331 | 5.665 | 2.082×10^5 | | |
| 1.00 TeV | 1.000×10^6 | 2.849 | 1.310 | 1.889 | 0.416 | 6.464 | 2.412×10^5 | | |
| 1.40 TeV | 1.400×10^6 | 2.885 | 1.878 | 2.701 | 0.590 | 8.055 | 2.966×10^5 | | |
| 2.00 TeV | 2.000×10^6 | 2.925 | 2.750 | 3.945 | 0.855 | 10.475 | 3.617×10^5 | | |
| 3.00 TeV | 3.000×10^6 | 2.970 | 4.210 | 6.015 | 1.309 | 14.505 | 4.425×10^5 | | |
| 4.00 TeV | 4.000×10^6 | 3.003 | 5.693 | 8.111 | 1.772 | 18.580 | 5.033×10^5 | | |
| 8.00 TeV | 8.000×10^6 | 3.084 | 11.694 | 16.551 | 3.696 | 35.026 | 6.575×10^5 | | |
| 10.0 TeV | 1.000×10^7 | 3.110 | 14.726 | 20.800 | 4.687 | 43.324 | 7.088×10^5 | | |
| 14.0 TeV | 1.400×10^7 | 3.151 | 20.778 | 29.267 | 6.728 | 59.924 | 7.870×10^5 | | |
| 20.0 TeV | 2.000×10^7 | 3.194 | 29.928 | 42.034 | 9.862 | 85.019 | 8.706×10^5 | | |
| 30.0 TeV | 3.000×10^7 | 3.245 | 45.152 | 63.281 | 15.299 | 126.977 | 9.662×10^5 | | |
| 40.0 TeV | 4.000×10^7 | 3.281 | 60.447 | 84.593 | 20.878 | 169.199 | 1.034×10^6 | | |
| 80.0 TeV | 8.000×10^7 | 3.371 | 121.766 | 169.907 | 44.274 | 339.317 | 1.198×10^6 | | |
| 100. TeV | 1.000×10^8 | 3.400 | 152.498 | 212.611 | 56.396 | 424.905 | 1.251×10^6 | | |