

**Table 202: Muons in Striated muscle (ICRU)**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.55005	1.040	74.7	0.08507	3.5383	0.2249	2.8032	3.4636	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod [MeV cm <sup>2</sup> /g]	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]	
10.0 MeV	$4.704 \times 10^1$	7.897				7.897	$6.998 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	6.160				6.160	$1.279 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.810				4.810	$2.394 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.732				3.732	$4.788 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.187				3.187	$7.707 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.392				2.392	$2.266 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.250				2.250	$3.130 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.096				2.096	$4.980 \times 10^1$	
200. MeV	$2.868 \times 10^2$	2.007				2.007	$7.917 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.973			0.000	1.974	$1.296 \times 10^2$	
318. MeV	$4.105 \times 10^2$	1.973			0.000	1.973	<i>Minimum ionization</i>	
400. MeV	$4.945 \times 10^2$	1.980			0.000	1.980	$1.802 \times 10^2$	
800. MeV	$8.995 \times 10^2$	2.054	0.000		0.000	2.055	$3.786 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	2.088	0.000		0.000	2.089	$4.751 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.144	0.000		0.001	2.145	$6.639 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.205	0.001	0.000	0.001	2.207	$9.394 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.275	0.001	0.001	0.001	2.278	$1.385 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.323	0.001	0.001	0.002	2.328	$1.819 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.434	0.004	0.003	0.004	2.445	$3.491 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.468	0.005	0.005	0.005	2.482	$4.302 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.516	0.007	0.008	0.007	2.538	$5.895 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.566	0.011	0.013	0.009	2.599	$8.229 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.619	0.018	0.023	0.014	2.674	$1.202 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.655	0.026	0.033	0.018	2.732	$1.572 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.738	0.060	0.080	0.034	2.912	$2.987 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.764	0.077	0.106	0.042	2.990	$3.665 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.802	0.114	0.159	0.059	3.135	$4.971 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.843	0.172	0.243	0.084	3.342	$6.825 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.888	0.271	0.386	0.125	3.672	$9.678 \times 10^4$	
400. GeV	$4.001 \times 10^5$	2.921	0.374	0.535	0.167	3.998	$1.229 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.999	0.804	1.156	0.338	5.298	$2.095 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	3.025	1.026	1.477	0.424	5.953	$2.451 \times 10^5$	
1.03 TeV	$1.033 \times 10^6$	3.029	1.061	1.529	0.439	6.058	<i>Muon critical energy</i>	
1.40 TeV	$1.400 \times 10^6$	3.064	1.472	2.116	0.602	7.254	$3.059 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	3.106	2.159	3.094	0.872	9.231	$3.790 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	3.154	3.310	4.723	1.336	12.523	$4.717 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	3.189	4.481	6.374	1.807	15.852	$5.425 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.274	9.223	13.026	3.773	29.296	$7.253 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	3.302	11.621	16.376	4.785	36.084	$7.868 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	3.345	16.407	23.051	6.871	49.674	$8.809 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	3.391	23.648	33.119	10.076	70.234	$9.820 \times 10^5$	
30.0 TeV	$3.000 \times 10^7$	3.444	35.704	49.870	15.639	104.657	$1.098 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.483	47.825	66.675	21.348	139.332	$1.180 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.578	96.441	133.953	45.312	279.283	$1.379 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.609	120.819	167.631	57.734	349.793	$1.443 \times 10^6$	