Muons in soft tissue (ICRP)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.55121	1.000	72.3	0.08926	3.5110	0.2211	2.7799	3.4354	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	7.947				7.947	6.952×10^{-1}
14.0 MeV	5.616×10^1	6.198				6.198	1.271×10^0
20.0 MeV	6.802×10^1	4.839				4.839	2.379×10^0
30.0 MeV	8.509×10^1	3.754				3.754	4.759×10^0
40.0 MeV	1.003×10^2	3.205				3.205	7.661×10^0
80.0 MeV	1.527×10^2	2.406				2.406	2.253×10^1
100. MeV	1.764×10^2	2.262				2.262	3.112×10^1
140. MeV	2.218×10^2	2.106				2.107	4.953×10^1
200. MeV	2.868×10^2	2.017				2.017	7.876×10^1
300. MeV	3.917×10^2	1.982			0.000	1.983	1.289×10^2
318. MeV	4.105×10^2	1.982			0.000	1.982	*Minimum ionization*
400. MeV	4.945×10^2	1.988			0.000	1.989	1.793×10^2
800. MeV	8.995×10^2	2.063	0.000		0.000	2.063	3.769×10^2
1.00 GeV	1.101×10^3	2.097	0.000		0.000	2.098	4.730×10^2
1.40 GeV	1.502×10^3	2.152	0.000		0.001	2.153	6.611×10^2
2.00 GeV	2.103×10^3	2.213	0.001	0.000	0.001	2.215	9.355×10^2
3.00 GeV	3.104×10^3	2.283	0.001	0.001	0.001	2.286	1.379×10^3
4.00 GeV	4.104×10^3	2.332	0.001	0.001	0.002	2.336	1.812×10^3
8.00 GeV	8.105×10^3	2.442	0.003	0.003	0.004	2.453	3.478×10^3
10.0 GeV	1.011×10^4	2.476	0.005	0.005	0.005	2.490	4.287×10^3
14.0 GeV	1.411×10^4	2.525	0.007	0.008	0.007	2.546	5.874×10^3
20.0 GeV	2.011×10^4	2.574	0.011	0.012	0.009	2.607	8.202×10^3
30.0 GeV	3.011×10^4	2.627	0.018	0.022	0.014	2.681	1.198×10^4
40.0 GeV	4.011×10^4	2.664	0.025	0.032	0.018	2.739	1.567×10^4
80.0 GeV	8.011×10^4	2.747	0.058	0.078	0.034	2.917	2.980×10^4
100. GeV	1.001×10^5	2.773	0.075	0.102	0.042	2.993	3.657×10^4
140. GeV	1.401×10^5	2.811	0.110	0.154	0.059	3.135	4.962×10^4
200. GeV	2.001×10^5	2.852	0.166	0.235	0.084	3.337	6.817×10^4
300. GeV	3.001×10^5	2.898	0.262	0.374	0.125	3.659	9.677×10^4
400. GeV	4.001×10^5	2.930	0.362	0.518	0.167	3.978	1.230×10^5
800. GeV	8.001×10^5	3.009	0.778	1.119	0.338	5.244	2.103×10^5
1.00 TeV	1.000×10^6	3.035	0.993	1.430	0.424	5.883	2.463×10^5
1.06 TeV	1.064×10^6	3.042	1.061	1.528	0.453	6.084	*Muon critical energy*
1.40 TeV	1.400×10^6	3.074	1.426	2.049	0.602	7.150	3.078×10^5
2.00 TeV	2.000×10^6	3.116	2.091	2.997	0.872	9.075	3.822×10^5
3.00 TeV	3.000×10^6	3.164	3.206	4.575	1.336	12.281	4.766×10^5
4.00 TeV	4.000×10^6	3.199	4.341	6.175	1.808	15.523	5.488×10^5
8.00 TeV	8.000×10^6	3.284	8.937	12.621	3.774	28.616	7.358×10^5
10.0 TeV	1.000×10^7	3.312	11.262	15.867	4.786	35.228	7.987×10^5
14.0 TeV	1.400×10^7	3.355	15.901	22.336	6.873	48.466	8.951×10^5
20.0 TeV	2.000×10^7	3.401	22.920	32.093	10.080	68.495	9.987×10^5
30.0 TeV	3.000×10^7	3.455	34.608	48.327	15.646	102.037	1.118×10^6
40.0 TeV	4.000×10^7	3.493	46.360	64.613	21.360	135.826	1.202×10^6
80.0 TeV	8.000×10^7	3.588	93.491	129.814	45.342	272.236	1.406×10^6
100. TeV	1.000×10^8	3.620	117.123	162.453	57.775	340.971	1.472×10^6