Muons in lead oxide (PbO)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.40323	9.530	766.7	0.19645	2.7299	0.0356	3.5456	6.2162	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	4.046				4.046	1.411×10^0
14.0 MeV	5.616×10^1	3.207				3.207	2.532×10^0
20.0 MeV	6.802×10^1	2.542				2.542	4.656×10^0
30.0 MeV	8.509×10^1	2.003				2.003	9.146×10^0
40.0 MeV	1.003×10^2	1.727				1.727	1.455×10^1
80.0 MeV	1.527×10^2	1.327				1.327	4.176×10^1
100. MeV	1.764×10^2	1.256				1.256	5.729×10^1
140. MeV	2.218×10^2	1.188				1.189	9.017×10^1
200. MeV	2.868×10^2	1.158				1.158	1.415×10^2
236. MeV	3.250×10^2	1.155	0.000			1.155	*Minimum ionization*
300. MeV	3.917×10^2	1.161	0.000		0.000	1.161	2.279×10^2
400. MeV	4.945×10^2	1.181	0.000		0.000	1.181	3.133×10^2
800. MeV	8.995×10^2	1.266	0.001		0.000	1.267	6.398×10^2
1.00 GeV	1.101×10^3	1.299	0.001		0.000	1.301	7.955×10^2
1.40 GeV	1.502×10^3	1.352	0.002		0.001	1.355	1.096×10^3
2.00 GeV	2.103×10^3	1.410	0.004	0.001	0.001	1.415	1.529×10^3
3.00 GeV	3.104×10^3	1.475	0.007	0.003	0.001	1.486	2.218×10^3
4.00 GeV	4.104×10^3	1.519	0.010	0.006	0.002	1.537	2.879×10^3
8.00 GeV	8.105×10^3	1.622	0.024	0.021	0.003	1.669	5.366×10^3
10.0 GeV	1.011×10^4	1.652	0.031	0.029	0.004	1.717	6.546×10^3
14.0 GeV	1.411×10^4	1.696	0.048	0.048	0.005	1.798	8.821×10^3
20.0 GeV	2.011×10^4	1.740	0.074	0.079	0.007	1.902	1.206×10^4
30.0 GeV	3.011×10^4	1.787	0.122	0.139	0.011	2.059	1.711×10^4
40.0 GeV	4.011×10^4	1.817	0.172	0.205	0.014	2.209	2.180×10^4
80.0 GeV	8.011×10^4	1.885	0.389	0.496	0.028	2.799	3.785×10^4
100. GeV	1.001×10^5	1.906	0.503	0.653	0.035	3.098	4.464×10^4
140. GeV	1.401×10^5	1.935	0.739	0.976	0.049	3.700	5.644×10^4
152. GeV	1.523×10^5	1.942	0.812	1.077	0.053	3.886	*Muon critical energy*
200. GeV	2.001×10^5	1.966	1.108	1.488	0.069	4.632	7.091×10^4
300. GeV	3.001×10^5	1.999	1.736	2.343	0.104	6.184	8.954×10^4
400. GeV	4.001×10^5	2.023	2.386	3.230	0.138	7.779	1.039×10^5
800. GeV	8.001×10^5	2.081	5.066	6.863	0.280	14.291	1.413×10^5
1.00 TeV	1.000×10^6	2.100	6.442	8.722	0.352	17.616	1.539×10^5
1.40 TeV	1.400×10^6	2.128	9.198	12.428	0.498	24.254	1.732×10^5
2.00 TeV	2.000×10^6	2.159	13.412	18.083	0.720	34.376	1.939×10^5
3.00 TeV	3.000×10^6	2.194	20.444	27.479	1.101	51.220	2.176×10^5
4.00 TeV	4.000×10^6	2.220	27.566	36.975	1.487	68.250	2.344×10^5
8.00 TeV	8.000×10^6	2.282	56.267	75.140	3.089	136.780	2.750×10^5
10.0 TeV	1.000×10^7	2.303	70.723	94.323	3.911	171.262	2.880×10^5
14.0 TeV	1.400×10^7	2.334	99.558	132.598	5.599	240.091	3.077×10^5
20.0 TeV	2.000×10^7	2.368	143.050	190.253	8.185	343.858	3.284×10^5
30.0 TeV	3.000×10^7	2.407	215.457	286.175	12.650	516.691	3.520×10^5
40.0 TeV	4.000×10^7	2.435	288.110	382.320	17.219	690.086	3.687×10^5
80.0 TeV	8.000×10^7	2.505	579.107	767.166	36.296	1385.076	4.088×10^5
100. TeV	1.000×10^8	2.528	724.829	959.764	46.149	1733.271	4.217×10^5