Muons in lanthanum oxysulfide La_2O_2S

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.42706	5.860	421.2	0.21501	2.7298	−0.0906	3.2664	5.4470	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	4.760				4.760	1.186×10^0
14.0 MeV	5.616×10^1	3.753				3.753	2.142×10^0
20.0 MeV	6.802×10^1	2.961				2.961	3.962×10^0
30.0 MeV	8.509×10^1	2.321				2.321	7.828×10^0
40.0 MeV	1.003×10^2	1.996				1.996	1.250×10^1
80.0 MeV	1.527×10^2	1.519				1.519	3.617×10^1
100. MeV	1.764×10^2	1.433				1.433	4.977×10^1
140. MeV	2.218×10^2	1.349				1.349	7.866×10^1
200. MeV	2.868×10^2	1.308				1.308	1.240×10^2
252. MeV	3.421×10^2	1.301				1.301	*Minimum ionization*
300. MeV	3.917×10^2	1.304	0.000		0.000	1.304	2.007×10^2
400. MeV	4.945×10^2	1.322	0.000		0.000	1.322	2.769×10^2
800. MeV	8.995×10^2	1.404	0.001		0.000	1.405	5.701×10^2
1.00 GeV	1.101×10^3	1.438	0.001		0.000	1.439	7.107×10^2
1.40 GeV	1.502×10^3	1.491	0.002	0.000	0.001	1.494	9.833×10^2
2.00 GeV	2.103×10^3	1.549	0.003	0.001	0.001	1.554	1.377×10^3
3.00 GeV	3.104×10^3	1.615	0.005	0.003	0.001	1.624	2.005×10^3
4.00 GeV	4.104×10^3	1.660	0.007	0.005	0.002	1.674	2.612×10^3
8.00 GeV	8.105×10^3	1.763	0.016	0.016	0.003	1.799	4.908×10^3
10.0 GeV	1.011×10^4	1.794	0.022	0.022	0.004	1.842	6.007×10^3
14.0 GeV	1.411×10^4	1.838	0.033	0.035	0.006	1.913	8.136×10^3
20.0 GeV	2.011×10^4	1.882	0.051	0.058	0.008	2.000	1.120×10^4
30.0 GeV	3.011×10^4	1.929	0.084	0.101	0.011	2.125	1.605×10^4
40.0 GeV	4.011×10^4	1.960	0.118	0.148	0.015	2.242	2.063×10^4
80.0 GeV	8.011×10^4	2.028	0.267	0.356	0.030	2.682	3.691×10^4
100. GeV	1.001×10^5	2.049	0.346	0.468	0.037	2.900	4.408×10^4
140. GeV	1.401×10^5	2.079	0.508	0.699	0.051	3.338	5.693×10^4
200. GeV	2.001×10^5	2.110	0.761	1.065	0.073	4.010	7.331×10^4
221. GeV	2.209×10^5	2.119	0.849	1.190	0.080	4.239	*Muon critical energy*
300. GeV	3.001×10^5	2.146	1.194	1.676	0.109	5.126	9.533×10^4
400. GeV	4.001×10^5	2.171	1.641	2.310	0.145	6.268	1.129×10^5
800. GeV	8.001×10^5	2.232	3.488	4.910	0.293	10.925	1.607×10^5
1.00 TeV	1.000×10^6	2.252	4.438	6.240	0.368	13.299	1.773×10^5
1.40 TeV	1.400×10^6	2.282	6.340	8.894	0.522	18.039	2.030×10^5
2.00 TeV	2.000×10^6	2.315	9.251	12.943	0.755	25.266	2.310×10^5
3.00 TeV	3.000×10^6	2.352	14.112	19.673	1.155	37.293	2.634×10^5
4.00 TeV	4.000×10^6	2.379	19.037	26.476	1.560	49.454	2.866×10^5
8.00 TeV	8.000×10^6	2.445	38.898	53.821	3.244	98.409	3.428×10^5
10.0 TeV	1.000×10^7	2.467	48.907	67.567	4.109	123.051	3.610×10^5
14.0 TeV	1.400×10^7	2.500	68.872	94.993	5.885	172.252	3.883×10^5
20.0 TeV	2.000×10^7	2.536	98.997	136.310	8.608	246.453	4.173×10^5
30.0 TeV	3.000×10^7	2.577	149.147	205.055	13.314	370.095	4.502×10^5
40.0 TeV	4.000×10^7	2.607	199.479	273.965	18.132	494.184	4.735×10^5
80.0 TeV	8.000×10^7	2.681	401.112	549.794	38.262	991.851	5.295×10^5
100. TeV	1.000×10^8	2.705	502.101	687.836	48.663	1241.307	5.475×10^5