

Muons in thallium chloride (TlCl)

	$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
	0.40861	7.004	690.3	0.18599	2.7690	0.0705	3.5716	6.3009	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	4.180				4.180		1.363×10^0	
14.0 MeV	5.616×10^1	3.309				3.309		2.449×10^0	
20.0 MeV	6.802×10^1	2.621				2.621		4.508×10^0	
30.0 MeV	8.509×10^1	2.063				2.063		8.865×10^0	
40.0 MeV	1.003×10^2	1.778				1.778		1.412×10^1	
80.0 MeV	1.527×10^2	1.365				1.365		4.057×10^1	
100. MeV	1.764×10^2	1.292				1.292		5.566×10^1	
140. MeV	2.218×10^2	1.222				1.222		8.764×10^1	
200. MeV	2.868×10^2	1.190				1.190		1.375×10^2	
236. MeV	3.250×10^2	1.187	0.000			1.187			<i>Minimum ionization</i>
300. MeV	3.917×10^2	1.193	0.000		0.000	1.194		2.216×10^2	
400. MeV	4.945×10^2	1.213	0.000		0.000	1.214		3.048×10^2	
800. MeV	8.995×10^2	1.299	0.001		0.000	1.301		6.226×10^2	
1.00 GeV	1.101×10^3	1.333	0.001		0.000	1.335		7.743×10^2	
1.40 GeV	1.502×10^3	1.387	0.002		0.001	1.390		1.068×10^3	
2.00 GeV	2.103×10^3	1.446	0.004	0.001	0.001	1.451		1.489×10^3	
3.00 GeV	3.104×10^3	1.512	0.006	0.003	0.001	1.523		2.161×10^3	
4.00 GeV	4.104×10^3	1.558	0.009	0.006	0.002	1.574		2.806×10^3	
8.00 GeV	8.105×10^3	1.661	0.022	0.020	0.003	1.707		5.236×10^3	
10.0 GeV	1.011×10^4	1.692	0.029	0.028	0.004	1.754		6.392×10^3	
14.0 GeV	1.411×10^4	1.737	0.045	0.046	0.005	1.834		8.620×10^3	
20.0 GeV	2.011×10^4	1.782	0.070	0.075	0.008	1.935		1.180×10^4	
30.0 GeV	3.011×10^4	1.829	0.115	0.132	0.011	2.087		1.677×10^4	
40.0 GeV	4.011×10^4	1.860	0.162	0.194	0.015	2.232		2.141×10^4	
80.0 GeV	8.011×10^4	1.929	0.367	0.470	0.028	2.795		3.738×10^4	
100. GeV	1.001×10^5	1.949	0.475	0.619	0.035	3.080		4.420×10^4	
140. GeV	1.401×10^5	1.979	0.698	0.925	0.049	3.653		5.611×10^4	
163. GeV	1.630×10^5	1.993	0.829	1.107	0.057	3.987			<i>Muon critical energy</i>
200. GeV	2.001×10^5	2.010	1.045	1.411	0.070	4.537		7.083×10^4	
300. GeV	3.001×10^5	2.045	1.639	2.221	0.105	6.011		8.993×10^4	
400. GeV	4.001×10^5	2.069	2.252	3.061	0.140	7.523		1.048×10^5	
800. GeV	8.001×10^5	2.127	4.783	6.506	0.282	13.700		1.436×10^5	
1.00 TeV	1.000×10^6	2.146	6.083	8.268	0.354	16.853		1.568×10^5	
1.40 TeV	1.400×10^6	2.175	8.686	11.782	0.502	23.147		1.769×10^5	
2.00 TeV	2.000×10^6	2.206	12.666	17.145	0.726	32.745		1.986×10^5	
3.00 TeV	3.000×10^6	2.242	19.309	26.055	1.110	48.717		2.235×10^5	
4.00 TeV	4.000×10^6	2.268	26.037	35.059	1.500	64.866		2.413×10^5	
8.00 TeV	8.000×10^6	2.331	53.154	71.251	3.116	129.853		2.840×10^5	
10.0 TeV	1.000×10^7	2.352	66.814	89.441	3.945	162.554		2.977×10^5	
14.0 TeV	1.400×10^7	2.384	94.060	125.738	5.648	227.831		3.184×10^5	
20.0 TeV	2.000×10^7	2.418	135.161	180.413	8.256	326.249		3.403×10^5	
30.0 TeV	3.000×10^7	2.458	203.579	271.379	12.763	490.180		3.651×10^5	
40.0 TeV	4.000×10^7	2.486	272.231	362.558	17.374	654.651		3.827×10^5	
80.0 TeV	8.000×10^7	2.557	547.222	727.523	36.627	1313.930		4.250×10^5	
100. TeV	1.000×10^8	2.580	684.935	910.170	46.570	1644.255		4.386×10^5	