

**Table 141: Muons in Cesium iodide (CsI)**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.41569	4.510	553.1	0.25381	2.6657	0.0395	3.3353	6.2807	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	$4.704 \times 10^1$	4.423				4.423	$1.283 \times 10^0$	
14.0 MeV	$5.616 \times 10^1$	3.495				3.495	$2.310 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	2.763				2.763	$4.262 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	2.171				2.171	$8.399 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	1.869				1.869	$1.339 \times 10^1$	
80.0 MeV	$1.527 \times 10^2$	1.432				1.432	$3.859 \times 10^1$	
100. MeV	$1.764 \times 10^2$	1.355				1.355	$5.298 \times 10^1$	
140. MeV	$2.218 \times 10^2$	1.281				1.281	$8.347 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.247				1.247	$1.311 \times 10^2$	
237. MeV	$3.260 \times 10^2$	1.243				1.243	<i>Minimum ionization</i>	
300. MeV	$3.917 \times 10^2$	1.248	0.000		0.000	1.249	$2.114 \times 10^2$	
400. MeV	$4.945 \times 10^2$	1.269	0.000		0.000	1.269	$2.909 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.356	0.001		0.000	1.357	$5.953 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.391	0.001		0.000	1.392	$7.407 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	1.446	0.002	0.000	0.001	1.449	$1.022 \times 10^3$	
2.00 GeV	$2.103 \times 10^3$	1.505	0.003	0.001	0.001	1.511	$1.427 \times 10^3$	
3.00 GeV	$3.104 \times 10^3$	1.573	0.005	0.003	0.001	1.582	$2.073 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	1.619	0.007	0.006	0.002	1.634	$2.694 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	1.724	0.018	0.017	0.003	1.763	$5.042 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	1.755	0.024	0.024	0.004	1.808	$6.161 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	1.800	0.037	0.040	0.005	1.883	$8.328 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	1.845	0.057	0.065	0.008	1.975	$1.144 \times 10^4$	
30.0 GeV	$3.011 \times 10^4$	1.892	0.093	0.113	0.011	2.110	$1.633 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	1.923	0.131	0.165	0.015	2.235	$2.094 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	1.991	0.297	0.397	0.029	2.715	$3.714 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.012	0.384	0.522	0.036	2.955	$4.420 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.042	0.564	0.779	0.050	3.436	$5.675 \times 10^4$	
197. GeV	$1.976 \times 10^5$	2.071	0.833	1.168	0.070	4.144	<i>Muon critical energy</i>	
200. GeV	$2.001 \times 10^5$	2.073	0.845	1.186	0.071	4.176	$7.257 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.107	1.326	1.866	0.107	5.406	$9.357 \times 10^4$	
400. GeV	$4.001 \times 10^5$	2.132	1.822	2.571	0.142	6.668	$1.102 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.191	3.873	5.460	0.287	11.812	$1.547 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.210	4.926	6.938	0.361	14.436	$1.700 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.240	7.037	9.886	0.511	19.676	$1.936 \times 10^5$	
2.00 TeV	$2.000 \times 10^6$	2.271	10.267	14.386	0.739	27.665	$2.192 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.308	15.659	21.863	1.131	40.961	$2.488 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	2.334	21.122	29.419	1.528	54.405	$2.699 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	2.399	43.151	59.794	3.174	108.520	$3.209 \times 10^5$	
10.0 TeV	$1.000 \times 10^7$	2.420	54.252	75.063	4.019	135.755	$3.374 \times 10^5$	
14.0 TeV	$1.400 \times 10^7$	2.452	76.393	105.529	5.754	190.130	$3.622 \times 10^5$	
20.0 TeV	$2.000 \times 10^7$	2.487	109.800	151.423	8.414	272.126	$3.884 \times 10^5$	
30.0 TeV	$3.000 \times 10^7$	2.527	165.415	227.780	13.007	408.730	$4.182 \times 10^5$	
40.0 TeV	$4.000 \times 10^7$	2.556	221.230	304.316	17.708	545.812	$4.393 \times 10^5$	
80.0 TeV	$8.000 \times 10^7$	2.628	444.823	610.679	37.330	1095.462	$4.900 \times 10^5$	
100. TeV	$1.000 \times 10^8$	2.652	556.808	764.003	47.463	1370.927	$5.063 \times 10^5$	