

**Table 236: Muons in Potassium iodide (KI)**

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.43373	3.130	431.9	0.22053	2.7558	0.1044	3.3442	6.1088	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
10.0 MeV	$4.704 \times 10^1$	4.814				4.814	$1.173 \times 10^0$		
14.0 MeV	$5.616 \times 10^1$	3.796				3.796	$2.118 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	2.995				2.995	$3.917 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	2.348				2.349	$7.738 \times 10^0$		
40.0 MeV	$1.003 \times 10^2$	2.019				2.019	$1.236 \times 10^1$		
80.0 MeV	$1.527 \times 10^2$	1.541				1.541	$3.573 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.457				1.457	$4.910 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.376				1.376	$7.748 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.337				1.337	$1.219 \times 10^2$		
246. MeV	$3.356 \times 10^2$	1.332				1.332	<i>Minimum ionization</i>		
300. MeV	$3.917 \times 10^2$	1.336	0.000		0.000	1.337	$1.969 \times 10^2$		
400. MeV	$4.945 \times 10^2$	1.356	0.000		0.000	1.357	$2.712 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.446	0.001		0.000	1.447	$5.563 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.481	0.001		0.000	1.483	$6.928 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.538	0.002	0.000	0.001	1.541	$9.572 \times 10^2$		
2.00 GeV	$2.103 \times 10^3$	1.599	0.002	0.001	0.001	1.604	$1.338 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.669	0.004	0.003	0.001	1.677	$1.947 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	1.716	0.006	0.005	0.002	1.729	$2.534 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	1.824	0.016	0.015	0.003	1.859	$4.756 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	1.856	0.021	0.021	0.004	1.903	$5.819 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	1.903	0.031	0.034	0.006	1.975	$7.881 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	1.949	0.049	0.056	0.008	2.062	$1.085 \times 10^4$		
30.0 GeV	$3.011 \times 10^4$	1.997	0.080	0.098	0.012	2.187	$1.556 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	2.029	0.113	0.143	0.015	2.301	$2.001 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	2.100	0.256	0.343	0.030	2.729	$3.595 \times 10^4$		
100. GeV	$1.001 \times 10^5$	2.121	0.331	0.451	0.037	2.941	$4.301 \times 10^4$		
140. GeV	$1.401 \times 10^5$	2.152	0.486	0.673	0.051	3.364	$5.572 \times 10^4$		
200. GeV	$2.001 \times 10^5$	2.184	0.728	1.026	0.073	4.012	$7.204 \times 10^4$		
236. GeV	$2.364 \times 10^5$	2.199	0.877	1.236	0.086	4.399	<i>Muon critical energy</i>		
300. GeV	$3.001 \times 10^5$	2.220	1.143	1.615	0.109	5.088	$9.413 \times 10^4$		
400. GeV	$4.001 \times 10^5$	2.246	1.571	2.225	0.146	6.188	$1.119 \times 10^5$		
800. GeV	$8.001 \times 10^5$	2.308	3.341	4.728	0.294	10.672	$1.606 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.328	4.250	6.010	0.370	12.959	$1.776 \times 10^5$		
1.40 TeV	$1.400 \times 10^6$	2.359	6.074	8.566	0.524	17.523	$2.040 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.391	8.863	12.467	0.758	24.481	$2.329 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.430	13.522	18.951	1.159	36.062	$2.663 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.457	18.243	25.505	1.566	47.772	$2.903 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.524	37.283	51.853	3.256	94.917	$3.486 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.546	46.879	65.099	4.124	118.649	$3.674 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.580	66.023	91.526	5.906	166.036	$3.958 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	2.616	94.911	131.340	8.638	237.507	$4.258 \times 10^5$		
30.0 TeV	$3.000 \times 10^7$	2.658	142.997	197.582	13.360	356.599	$4.600 \times 10^5$		
40.0 TeV	$4.000 \times 10^7$	2.689	191.259	263.983	18.196	476.128	$4.842 \times 10^5$		
80.0 TeV	$8.000 \times 10^7$	2.764	384.613	529.775	38.390	955.543	$5.423 \times 10^5$		
100. TeV	$1.000 \times 10^8$	2.788	481.461	662.794	48.823	1195.867	$5.610 \times 10^5$		