

**Table 186: Muons in Lithium hydride (LiH)**

$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
0.50321	0.820	36.5	0.90567	2.5849	-0.0988	1.4515	2.3580	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	$4.704 \times 10^1$	7.893				7.893	$6.960 \times 10^{-1}$	
14.0 MeV	$5.616 \times 10^1$	6.137				6.137	$1.277 \times 10^0$	
20.0 MeV	$6.802 \times 10^1$	4.778				4.778	$2.398 \times 10^0$	
30.0 MeV	$8.509 \times 10^1$	3.695				3.695	$4.811 \times 10^0$	
40.0 MeV	$1.003 \times 10^2$	3.148				3.148	$7.763 \times 10^0$	
80.0 MeV	$1.527 \times 10^2$	2.337				2.337	$2.299 \times 10^1$	
100. MeV	$1.764 \times 10^2$	2.187				2.187	$3.186 \times 10^1$	
140. MeV	$2.218 \times 10^2$	2.032				2.032	$5.092 \times 10^1$	
200. MeV	$2.868 \times 10^2$	1.940			0.000	1.940	$8.126 \times 10^1$	
300. MeV	$3.917 \times 10^2$	1.899			0.000	1.899	$1.335 \times 10^2$	
348. MeV	$4.413 \times 10^2$	1.897			0.000	1.897	<i>Minimum ionization</i>	
400. MeV	$4.945 \times 10^2$	1.899			0.000	1.899	$1.862 \times 10^2$	
800. MeV	$8.995 \times 10^2$	1.953			0.000	1.954	$3.940 \times 10^2$	
1.00 GeV	$1.101 \times 10^3$	1.980			0.000	1.980	$4.957 \times 10^2$	
1.40 GeV	$1.502 \times 10^3$	2.023	0.000		0.001	2.023	$6.954 \times 10^2$	
2.00 GeV	$2.103 \times 10^3$	2.070	0.000		0.001	2.071	$9.883 \times 10^2$	
3.00 GeV	$3.104 \times 10^3$	2.125	0.000	0.000	0.002	2.127	$1.464 \times 10^3$	
4.00 GeV	$4.104 \times 10^3$	2.164	0.001	0.000	0.002	2.167	$1.930 \times 10^3$	
8.00 GeV	$8.105 \times 10^3$	2.257	0.001	0.001	0.004	2.264	$3.731 \times 10^3$	
10.0 GeV	$1.011 \times 10^4$	2.286	0.002	0.002	0.005	2.295	$4.609 \times 10^3$	
14.0 GeV	$1.411 \times 10^4$	2.329	0.003	0.003	0.007	2.342	$6.333 \times 10^3$	
20.0 GeV	$2.011 \times 10^4$	2.373	0.005	0.005	0.010	2.393	$8.866 \times 10^3$	
30.0 GeV	$3.011 \times 10^4$	2.421	0.008	0.009	0.014	2.452	$1.299 \times 10^4$	
40.0 GeV	$4.011 \times 10^4$	2.454	0.011	0.014	0.018	2.497	$1.703 \times 10^4$	
80.0 GeV	$8.011 \times 10^4$	2.530	0.025	0.034	0.036	2.625	$3.262 \times 10^4$	
100. GeV	$1.001 \times 10^5$	2.554	0.033	0.045	0.044	2.676	$4.017 \times 10^4$	
140. GeV	$1.401 \times 10^5$	2.589	0.049	0.068	0.061	2.768	$5.486 \times 10^4$	
200. GeV	$2.001 \times 10^5$	2.626	0.074	0.105	0.087	2.892	$7.606 \times 10^4$	
300. GeV	$3.001 \times 10^5$	2.668	0.118	0.168	0.130	3.084	$1.095 \times 10^5$	
400. GeV	$4.001 \times 10^5$	2.697	0.164	0.235	0.173	3.269	$1.410 \times 10^5$	
800. GeV	$8.001 \times 10^5$	2.769	0.356	0.513	0.349	3.988	$2.516 \times 10^5$	
1.00 TeV	$1.000 \times 10^6$	2.793	0.456	0.658	0.439	4.346	$2.996 \times 10^5$	
1.40 TeV	$1.400 \times 10^6$	2.828	0.658	0.948	0.623	5.057	$3.849 \times 10^5$	
1.76 TeV	$1.763 \times 10^6$	2.853	0.845	1.216	0.792	5.706	<i>Muon critical energy</i>	
2.00 TeV	$2.000 \times 10^6$	2.867	0.969	1.394	0.903	6.133	$4.924 \times 10^5$	
3.00 TeV	$3.000 \times 10^6$	2.911	1.494	2.138	1.384	7.927	$6.355 \times 10^5$	
4.00 TeV	$4.000 \times 10^6$	2.942	2.029	2.896	1.874	9.742	$7.491 \times 10^5$	
8.00 TeV	$8.000 \times 10^6$	3.021	4.207	5.953	3.919	17.099	$1.055 \times 10^6$	
10.0 TeV	$1.000 \times 10^7$	3.046	5.312	7.496	4.973	20.827	$1.161 \times 10^6$	
14.0 TeV	$1.400 \times 10^7$	3.085	7.519	10.567	7.147	28.318	$1.325 \times 10^6$	
20.0 TeV	$2.000 \times 10^7$	3.128	10.866	15.205	10.490	39.689	$1.503 \times 10^6$	
30.0 TeV	$3.000 \times 10^7$	3.176	16.442	22.914	16.304	58.836	$1.709 \times 10^6$	
40.0 TeV	$4.000 \times 10^7$	3.212	22.058	30.652	22.276	78.198	$1.856 \times 10^6$	
80.0 TeV	$8.000 \times 10^7$	3.298	44.596	61.639	47.395	156.928	$2.210 \times 10^6$	
100. TeV	$1.000 \times 10^8$	3.327	55.905	77.155	60.435	196.823	$2.324 \times 10^6$	