

## Muons in lithium oxide Li<sub>2</sub>O

	$\langle Z/A \rangle$	$\rho$ [g/cm <sup>3</sup> ]	$I$ [eV]	$a$	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
	0.46952	2.013	73.6	0.08035	3.7878	-0.0511	2.5874	2.9340	0.00
$T$	$p$ [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm <sup>2</sup> ]		
				[MeV cm <sup>2</sup> /g]					
10.0 MeV	$4.704 \times 10^1$	6.753				6.753	$8.182 \times 10^{-1}$		
14.0 MeV	$5.616 \times 10^1$	5.268				5.268	$1.496 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	4.113				4.113	$2.800 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	3.191				3.191	$5.599 \times 10^0$		
40.0 MeV	$1.003 \times 10^2$	2.724				2.724	$9.013 \times 10^0$		
80.0 MeV	$1.527 \times 10^2$	2.033				2.033	$2.655 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.905				1.906	$3.674 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.775				1.775	$5.859 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.700				1.700	$9.327 \times 10^1$		
300. MeV	$3.917 \times 10^2$	1.670			0.000	1.670	$1.528 \times 10^2$		
325. MeV	$4.171 \times 10^2$	1.669			0.000	1.670	<i>Minimum ionization</i>		
400. MeV	$4.945 \times 10^2$	1.674			0.000	1.675	$2.126 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.735	0.000		0.000	1.735	$4.474 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.762	0.000		0.000	1.763	$5.617 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.807	0.000		0.001	1.808	$7.856 \times 10^2$		
2.00 GeV	$2.103 \times 10^3$	1.857	0.000	0.000	0.001	1.859	$1.113 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.914	0.001	0.000	0.001	1.917	$1.642 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	1.953	0.001	0.001	0.002	1.957	$2.158 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	2.045	0.003	0.003	0.004	2.054	$4.147 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	2.072	0.004	0.004	0.005	2.085	$5.113 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	2.113	0.006	0.006	0.007	2.131	$7.010 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	2.155	0.009	0.010	0.009	2.182	$9.790 \times 10^3$		
30.0 GeV	$3.011 \times 10^4$	2.200	0.014	0.017	0.014	2.245	$1.430 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	2.230	0.020	0.026	0.018	2.294	$1.871 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	2.301	0.046	0.062	0.034	2.444	$3.557 \times 10^4$		
100. GeV	$1.001 \times 10^5$	2.323	0.060	0.082	0.043	2.508	$4.365 \times 10^4$		
140. GeV	$1.401 \times 10^5$	2.356	0.088	0.123	0.059	2.627	$5.923 \times 10^4$		
200. GeV	$2.001 \times 10^5$	2.390	0.133	0.188	0.084	2.796	$8.136 \times 10^4$		
300. GeV	$3.001 \times 10^5$	2.429	0.210	0.300	0.126	3.065	$1.155 \times 10^5$		
400. GeV	$4.001 \times 10^5$	2.457	0.290	0.416	0.168	3.330	$1.468 \times 10^5$		
800. GeV	$8.001 \times 10^5$	2.524	0.623	0.899	0.339	4.385	$2.511 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.546	0.795	1.149	0.426	4.917	$2.942 \times 10^5$		
1.07 TeV	$1.072 \times 10^6$	2.553	0.857	1.238	0.458	5.106	<i>Muon critical energy</i>		
1.40 TeV	$1.400 \times 10^6$	2.579	1.142	1.647	0.604	5.973	$3.679 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.615	1.675	2.410	0.875	7.576	$4.569 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.656	2.569	3.682	1.341	10.248	$5.700 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.686	3.478	4.972	1.815	12.952	$6.566 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.759	7.161	10.170	3.790	23.880	$8.807 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.783	9.024	12.789	4.807	29.403	$9.560 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.819	12.741	18.006	6.904	40.470	$1.072 \times 10^6$		
20.0 TeV	$2.000 \times 10^7$	2.859	18.364	25.877	10.125	57.224	$1.196 \times 10^6$		
30.0 TeV	$3.000 \times 10^7$	2.904	27.725	38.970	15.719	85.319	$1.338 \times 10^6$		
40.0 TeV	$4.000 \times 10^7$	2.937	37.137	52.108	21.461	113.643	$1.439 \times 10^6$		
80.0 TeV	$8.000 \times 10^7$	3.018	74.879	104.704	45.566	228.168	$1.683 \times 10^6$		
100. TeV	$1.000 \times 10^8$	3.045	93.801	131.035	58.065	285.946	$1.761 \times 10^6$		