

## Muons in nobelium (No)

Z	A [g/mol]	$\rho$ [g/cm <sup>3</sup> ]	I [eV]	a	$k = m_s$	$x_0$	$x_1$	$\bar{C}$	$\delta_0$
102 (No)	[259.1010(7)]	??	1020.0	0.26500	3.0000	0.5950	3.0000	6.4264	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	$4.704 \times 10^1$	3.603				3.603	$1.639 \times 10^0$		
14.0 MeV	$5.616 \times 10^1$	2.897				2.897	$2.888 \times 10^0$		
20.0 MeV	$6.802 \times 10^1$	2.323				2.323	$5.223 \times 10^0$		
30.0 MeV	$8.509 \times 10^1$	1.847				1.848	$1.011 \times 10^1$		
40.0 MeV	$1.003 \times 10^2$	1.601				1.602	$1.596 \times 10^1$		
80.0 MeV	$1.527 \times 10^2$	1.241				1.241	$4.515 \times 10^1$		
100. MeV	$1.764 \times 10^2$	1.178				1.179	$6.173 \times 10^1$		
140. MeV	$2.218 \times 10^2$	1.121				1.121	$9.667 \times 10^1$		
200. MeV	$2.868 \times 10^2$	1.100				1.100	$1.509 \times 10^2$		
210. MeV	$2.977 \times 10^2$	1.099	0.000			1.100	<i>Minimum ionization</i>		
300. MeV	$3.917 \times 10^2$	1.113	0.000		0.000	1.113	$2.414 \times 10^2$		
400. MeV	$4.945 \times 10^2$	1.140	0.000		0.000	1.141	$3.302 \times 10^2$		
800. MeV	$8.995 \times 10^2$	1.235	0.001		0.000	1.237	$6.660 \times 10^2$		
1.00 GeV	$1.101 \times 10^3$	1.271	0.002		0.000	1.273	$8.252 \times 10^2$		
1.40 GeV	$1.502 \times 10^3$	1.326	0.003		0.000	1.329	$1.132 \times 10^3$		
2.00 GeV	$2.103 \times 10^3$	1.384	0.005	0.001	0.001	1.390	$1.573 \times 10^3$		
3.00 GeV	$3.104 \times 10^3$	1.448	0.008	0.003	0.001	1.461	$2.274 \times 10^3$		
4.00 GeV	$4.104 \times 10^3$	1.491	0.012	0.006	0.001	1.512	$2.946 \times 10^3$		
8.00 GeV	$8.105 \times 10^3$	1.587	0.030	0.024	0.003	1.645	$5.473 \times 10^3$		
10.0 GeV	$1.011 \times 10^4$	1.615	0.040	0.035	0.004	1.694	$6.671 \times 10^3$		
14.0 GeV	$1.411 \times 10^4$	1.655	0.062	0.057	0.005	1.780	$8.973 \times 10^3$		
20.0 GeV	$2.011 \times 10^4$	1.694	0.096	0.095	0.007	1.893	$1.224 \times 10^4$		
30.0 GeV	$3.011 \times 10^4$	1.735	0.157	0.169	0.011	2.073	$1.728 \times 10^4$		
40.0 GeV	$4.011 \times 10^4$	1.762	0.222	0.251	0.014	2.251	$2.191 \times 10^4$		
80.0 GeV	$8.011 \times 10^4$	1.823	0.503	0.613	0.027	2.967	$3.735 \times 10^4$		
100. GeV	$1.001 \times 10^5$	1.841	0.652	0.809	0.034	3.337	$4.370 \times 10^4$		
120. GeV	$1.205 \times 10^5$	1.856	0.805	1.011	0.040	3.715	<i>Muon critical energy</i>		
140. GeV	$1.401 \times 10^5$	1.869	0.957	1.211	0.047	4.085	$5.452 \times 10^4$		
200. GeV	$2.001 \times 10^5$	1.898	1.433	1.850	0.067	5.250	$6.746 \times 10^4$		
300. GeV	$3.001 \times 10^5$	1.930	2.246	2.917	0.100	7.195	$8.368 \times 10^4$		
400. GeV	$4.001 \times 10^5$	1.953	3.086	4.022	0.134	9.197	$9.594 \times 10^4$		
800. GeV	$8.001 \times 10^5$	2.010	6.548	8.554	0.270	17.384	$1.271 \times 10^5$		
1.00 TeV	$1.000 \times 10^6$	2.028	8.324	10.873	0.339	21.566	$1.374 \times 10^5$		
1.40 TeV	$1.400 \times 10^6$	2.056	11.881	15.495	0.481	29.915	$1.531 \times 10^5$		
2.00 TeV	$2.000 \times 10^6$	2.086	17.318	22.548	0.695	42.649	$1.698 \times 10^5$		
3.00 TeV	$3.000 \times 10^6$	2.120	26.387	34.267	1.062	63.838	$1.888 \times 10^5$		
4.00 TeV	$4.000 \times 10^6$	2.145	35.570	46.109	1.434	85.261	$2.023 \times 10^5$		
8.00 TeV	$8.000 \times 10^6$	2.206	72.562	93.705	2.977	171.452	$2.348 \times 10^5$		
10.0 TeV	$1.000 \times 10^7$	2.226	91.191	117.626	3.768	214.814	$2.452 \times 10^5$		
14.0 TeV	$1.400 \times 10^7$	2.257	128.346	165.359	5.391	301.355	$2.608 \times 10^5$		
20.0 TeV	$2.000 \times 10^7$	2.290	184.378	237.260	7.878	431.808	$2.774 \times 10^5$		
30.0 TeV	$3.000 \times 10^7$	2.328	277.750	356.871	12.170	649.122	$2.961 \times 10^5$		
40.0 TeV	$4.000 \times 10^7$	2.356	371.452	476.756	16.561	867.127	$3.094 \times 10^5$		
80.0 TeV	$8.000 \times 10^7$	2.424	746.229	956.644	34.882	1740.182	$3.413 \times 10^5$		
100. TeV	$1.000 \times 10^8$	2.446	933.730	1196.810	44.340	2177.328	$3.516 \times 10^5$		