

Muons in titanium dioxide (TiO₂)

	$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
	0.47572	4.260	179.5	0.08569	3.3267	-0.0119	3.1647	3.9522	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm ²]		
				[MeV cm ² /g]					
10.0 MeV	4.704×10^1	6.055				6.055		9.212×10^{-1}	
14.0 MeV	5.616×10^1	4.746				4.746		1.675×10^0	
20.0 MeV	6.802×10^1	3.723				3.723		3.118×10^0	
30.0 MeV	8.509×10^1	2.902				2.902		6.202×10^0	
40.0 MeV	1.003×10^2	2.486				2.486		9.950×10^0	
80.0 MeV	1.527×10^2	1.867				1.867		2.910×10^1	
100. MeV	1.764×10^2	1.754				1.755		4.017×10^1	
140. MeV	2.218×10^2	1.641				1.641		6.386×10^1	
200. MeV	2.868×10^2	1.579				1.580		1.013×10^2	
288. MeV	3.788×10^2	1.562			0.000	1.562		<i>Minimum ionization</i>	
300. MeV	3.917×10^2	1.562			0.000	1.562		1.651×10^2	
400. MeV	4.945×10^2	1.573	0.000		0.000	1.574		2.289×10^2	
800. MeV	8.995×10^2	1.649	0.000		0.000	1.650		4.771×10^2	
1.00 GeV	1.101×10^3	1.682	0.000		0.000	1.683		5.971×10^2	
1.40 GeV	1.502×10^3	1.734	0.001	0.000	0.001	1.735		8.310×10^2	
2.00 GeV	2.103×10^3	1.791	0.001	0.001	0.001	1.794		1.171×10^3	
3.00 GeV	3.104×10^3	1.856	0.002	0.001	0.001	1.861		1.718×10^3	
4.00 GeV	4.104×10^3	1.901	0.003	0.002	0.002	1.908		2.248×10^3	
8.00 GeV	8.105×10^3	2.003	0.007	0.007	0.004	2.020		4.278×10^3	
10.0 GeV	1.011×10^4	2.034	0.009	0.009	0.004	2.057		5.259×10^3	
14.0 GeV	1.411×10^4	2.078	0.014	0.015	0.006	2.114		7.176×10^3	
20.0 GeV	2.011×10^4	2.123	0.022	0.025	0.009	2.178		9.970×10^3	
30.0 GeV	3.011×10^4	2.171	0.035	0.044	0.013	2.262		1.447×10^4	
40.0 GeV	4.011×10^4	2.203	0.050	0.064	0.017	2.333		1.882×10^4	
80.0 GeV	8.011×10^4	2.276	0.113	0.153	0.032	2.574		3.512×10^4	
100. GeV	1.001×10^5	2.298	0.146	0.201	0.040	2.686		4.272×10^4	
140. GeV	1.401×10^5	2.331	0.214	0.302	0.056	2.903		5.704×10^4	
200. GeV	2.001×10^5	2.366	0.322	0.460	0.079	3.228		7.663×10^4	
300. GeV	3.001×10^5	2.406	0.506	0.727	0.119	3.758		1.053×10^5	
400. GeV	4.001×10^5	2.434	0.697	1.004	0.158	4.293		1.302×10^5	
516. GeV	5.156×10^5	2.458	0.923	1.332	0.204	4.918		<i>Muon critical energy</i>	
800. GeV	8.001×10^5	2.502	1.487	2.146	0.319	6.455		2.057×10^5	
1.00 TeV	1.000×10^6	2.524	1.894	2.733	0.401	7.553		2.343×10^5	
1.40 TeV	1.400×10^6	2.558	2.712	3.903	0.569	9.742		2.808×10^5	
2.00 TeV	2.000×10^6	2.594	3.965	5.692	0.823	13.075		3.338×10^5	
3.00 TeV	3.000×10^6	2.635	6.061	8.666	1.261	18.624		3.976×10^5	
4.00 TeV	4.000×10^6	2.665	8.189	11.675	1.705	24.236		4.445×10^5	
8.00 TeV	8.000×10^6	2.739	16.784	23.785	3.552	46.862		5.611×10^5	
10.0 TeV	1.000×10^7	2.764	21.122	29.878	4.503	58.267		5.993×10^5	
14.0 TeV	1.400×10^7	2.801	29.782	42.029	6.458	81.069		6.573×10^5	
20.0 TeV	2.000×10^7	2.840	42.865	60.343	9.458	115.507		7.190×10^5	
30.0 TeV	3.000×10^7	2.887	64.624	90.816	14.656	172.983		7.893×10^5	
40.0 TeV	4.000×10^7	2.920	86.474	121.373	19.985	230.752		8.391×10^5	
80.0 TeV	8.000×10^7	3.002	174.071	243.696	42.297	463.067		9.591×10^5	
100. TeV	1.000×10^8	3.029	217.970	304.922	53.845	579.766		9.976×10^5	