

Hi Christian,

to be more precise, here is the complete list with the individual range cuts and the equivalent energy thresholds for the PB simulations:

Toggle Spoiler

Cuts in range (mm)

Material	gamma	e-	e+

Air	1	1	1
Carbon	1	1	1
Aluminum	1	1	1
Silicon	1	1	1
Stt_AlBe	1	1	1
Mylar	1	1	1
Stt_Ar_CO2_90_10		1	1 1
CarbonFiber	1	1	1
DCgas	1	1	1
Gem_G10	1	1	1
Gem_ArCO2		1	1 1
Plastic	1	1	1
quartz	1	1	1
Argon	1	1	1
Iron	1	1	1
Vacuum	1	1	1
Stainless steel	1	1	1
Al+Be	1	1	1
Aluminium	1	1	1
Copper	1	1	1
E_PWO	1	1	1
E_CarbonFibre	0.01	0.01	0.01
Fsc_Lead	0.1	0.1	0.1
Fsc_Scintillator	0.1	0.1	0.1

Cuts in energy (MeV)

Material	gamma	e-	e+

Air	0.00099	0.00099	0.00099
Carbon	0.00329462	0.568011	0.554196
Aluminum	0.00688731	0.59668	0.568011
Silicon	0.00688731	0.540718	0.521113
Stt_AlBe	0.00452342	0.46646	0.449547
Mylar	0.00297898	0.417539	0.4024
Stt_Ar_CO2_90_10	0.00099	0.00120121	0.00118651
CarbonFiber	0.00236543	0.547416	0.527568
DCgas	0.00099	0.00099	0.00099

Gem_G10	0.00413892	0.478087	0.46646
Gem_ArCO2	0.00099	0.00099	0.00099
Plastic	0.00236895	0.355791	0.347138
quartz	0.00551637	0.534102	0.514737
Argon	0.00099	0.00099	0.00099
Iron	0.0208323	1.28002	1.21851
Vacuum	0.00099	0.00099	0.00099
Stainless steel	0.0208323	1.31192	1.23361
Al+Be	0.00336548	0.502219	0.484009
Aluminium	0.00688731	0.59668	0.568011
Copper	0.0246072	1.39521	1.31192
E_PWO	0.0847768	1.13176	1.06419
E_CarbonFibre	0.00099	0.0330634	0.0326589
Fsc_Lead	0.0293406	0.239945	0.231245
Fsc_Scintillator	0.000995281	0.0853134	0.0842696

As you can see there, the standard cut is 1mm. For thin materials like carbon fibres or the scintillators/absorbers within the forward spectrometer 1-2 orders of magnitude lower range cuts have been used.

Cheers,
Bertram.
