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Radon Emanation from Torlon  
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A piece of dark grey Torlon rod (13 cm long, 3 cm OD) was put inside a clean polypropylene 1 liter column (normally used for MnO2-coated acrylic beads). The column was put on Cuelfm electrostatic chamber 4 and counted for two days. Then the Torlon piece was taken out and the empty PP column was counted.

With the Torlon in the column, the numbers of counts after 150366 seconds of counting were 126 in the uranium 218Po peak and 1 in the thorium chain 210Po peak. For the empty column there were 15 counts in the 210Po peak and 59 counts in the 218Po peak after 103160 sec of counting.

Hence the inferred emanation rate from the 33.9 cm<sup>2</sup> area of Torlon is

62 ± 10 222Rn per m<sup>2</sup> per hour  
and 491 220Rn per m<sup>2</sup> per hour.

(These results can be compared to some off-the-shelf polypropylene that has 1 to 15 222Rn per m<sup>2</sup> per hour.)