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A Radioactivity Survey of Commercially Available PTFE from European Suppliers

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Due to its optical and electrical properties, polytetrafluoroethylene (PTFE) is an indispensable construction material for many modern rare event searches. Thus, the radioactive contamination of PTFE therein needs to be as low as possible. We present a cross-sectional study investigating the radioactive contamination of PTFE samples from major European suppliers of raw PTFE. The bulk contaminations of the samples were measured utilizing ICP-MS and HPGe gamma spectrometry, and the radon surface emanation was assessed with a recently commissioned electrostatic radon detector.

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